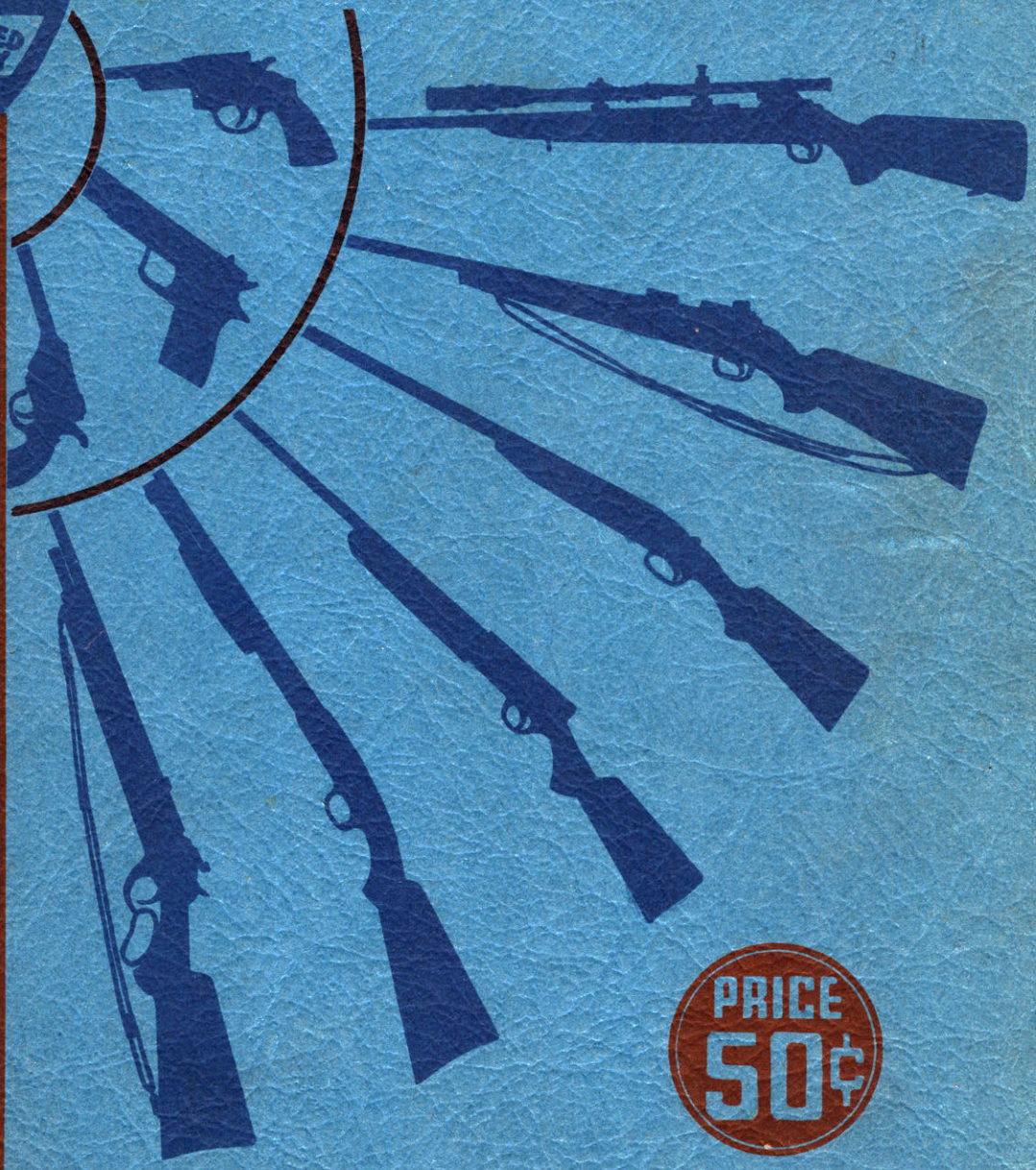
HANDBOOK AND CATALOG

NATIONAL PRODUCTS
GUARANTEED QUALITY



PRICE 50¢

THE NATIONAL TARGET & SUPPLY CO.

1249-1255 25TH ST, N.W.

WASHINGTON, D.C.

THE NATIONAL TARGET & SUPPLY COMPANY

1249-1255 25th Street, N. W.

Washington, D. C.

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CHAS. D. GERMAN, *President*

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TOWNSEND WHELEN, *Manager Gun Department*

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HOW TO ORDER FROM THIS CATALOG

All prices in this catalog are subject to change or correction without notice.

Prices include the present Government Excise Tax, but not local or state taxes.

We do not accept used guns or other merchandise in trade.

Unless otherwise stated all merchandise listed in this catalog is sold f.o.b. Washington, D. C., or f.o.b. the factory manufacturing the article.

GENERAL INSTRUCTIONS:

Write plainly or print your name and address.

When ordering state page, number, make, model, size, and any other information which will help us to fill your order correctly.

SHIPMENTS:

Specify whether goods are to be shipped by truck, freight, express, or parcel post. Pistols and revolvers cannot be sent through the mails. If shipments are to be made by parcel post, sufficient remittance must be enclosed to cover postage. Parcel post shipments should be insured and you should include the insurance charges in your remittance at the rate of 5c for $5 value, 15c for $50 value, and 25c for $100.

All goods should be examined promptly when received, and, if damaged in transit, the customer should immediately file a claim against the transit company.

PAYMENTS:

Payments can be made by cash, postal money order, express money order, postage stamps, or checks, and should be made payable to the National Target & Supply Company.

GUARANTEE:

We unconditionally guarantee every item we sell, and back of our guarantee stands that of the manufacturer.

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TO THE SHOOTERS OF AMERICA:

THERE are several important factors to which a shooter should give careful consideration when he contemplates the purchase of shooting equipment.

The first of these, and probably the most important, is to make certain that the article selected is the one which will render the most satisfactory performance for the specific purpose he has in mind. There are but few sporting goods salesmen who are qualified to advise you which type of rifle equipped with proper sights you should have for small game shooting, or what type of shotgun is best suited for upland game. Too frequently is a salesman disposed to sell you one of the items he has in stock, with little or no regard to your requirements, which results not only in a waste of money but in a loss of interest on your part in the sport.

Based on the theory, therefore, that whether you are a tyro or an expert there comes a time when advice is needed, we have, in our endeavor to make this catalogue a reliable, authoritative, and up-to-date guide to the selection of all kinds of equipment for shooters, engaged the services of the three outstanding authorities in America on rifles, handguns, and shotguns to advise our customers as to the particular guns and other equipment which are best suited for any specific purpose.

These men have no connection whatever with any manufacturer, and for years they have been noted for giving unbiased information on these matters to the American shooting public. They have not only written the introductions to the various sections dealing with rifles, handguns, shotguns, and other equipment, but their pertinent comments on various equipment will be found scattered in appropriate places throughout the catalogue. In many places, instead of presenting the standard descriptions of the various guns and other articles, we have asked them to give their own descriptions, as well as relevant and helpful comments.

You will note that quite generally these three authorities recommend standard types of guns rather than special and expensive arms. This is because in recent years experience at the big rifle, trap, and skeet matches has shown conclusively that certain types of guns will give best results. Our manufacturers have taken the results obtained at these big "proving grounds" to heart, and they have made their standard arms to correspond to those types of guns which have given the best results. Thus, today, generally speaking, the standard guns are as good as the finest and most expensive arms made, at least so far as results are concerned. They may not be quite so beautiful to look at, but the fine shot can get the same results from shooting them as from the finest arms built, and, in many cases, these standard arms are made of just as good and durable materials as the finest guns—many of them being capable of lasting a lifetime.

In certain small respects, however, these standard guns may not always fill the needs of the discriminating shooter. Competition between manufacturers is so keen that there is sometimes a tendency to slight certain details in order that a manufacturer's product can be sold at a price which will compare with that of a competitive arm. Thus, certain rifles are listed as "standard grade" with just the ordinary open sights and without a good gunsling. Naturally, the up-to-date shooter will wish to add these lacking features. So, too, the grip and sights of the revolver may not be just what a fine shot will desire. Some shotgun shooters will wish beavertail fore-ends, single triggers, or soft rubber recoil pads. In their articles, and elsewhere throughout the catalogue, Colonel Whelen, Colonel Hatcher, and Major Askins tell you what accessories are needed to place certain standard arms in effective condition for the best performance.

By "standard arms" we do not mean low priced or cheap arms. While modern manufacturing methods have gone a long way in enabling factories to put out a fairly reliable arm at a very low price, as might be expected, the low priced arm lacks the effectiveness and the durability of the standard gun. However, they can be used with entire safety, for no manufacturer today could afford to produce an unsafe gun.

Formerly, not every shooter could afford to purchase these standard arms. We have, however, with the average shooter in mind, devised our National Time Payment Plan, which will be found described elsewhere in this catalogue. By taking advantage of this plan, the shooter need no longer deny and handicap himself because he does not have the cash necessary to get the equipment he wishes. He can buy arms and equipment from us on easy time payments, just as he has been accustomed to buying his automobile and radio, or as his wife has purchased her refrigerator or washing machine. He gets delivery and can begin to use his equipment with the first small payment.

It is our earnest desire to maintain our reputation as the safest organization for shooters of America to deal with. We unqualifiedly guarantee every piece of equipment we sell.

The Men Who Compiled This Handbook and Catalogue

COLONEL TOWNSEND WHELEN, United States Army, Retired, has been hunting big and small game with the rifle every year since 1892. His hunting camps dot the entire North American continent from Panama to where the waters flow into the Arctic ocean, and from the Atlantic to the Pacific. The only game in America which has escaped his gun is the musk oxen. He qualified as Sharpshooter in the Pennsylvania National Guard in 1896, and, entering the Regular Army in 1902, in 1903 he won the rifle championship of the entire army. As a member of the Army Infantry Rifle team 1903 to 1909, he won many rifle competitions, and he is still shooting and still winning matches. He transferred to the Ordnance Department of the Army in 1930, and has held many important posts, including the command of Frankford Arsenal and Director of Research and Experiment at Springfield Armory. Colonel Whelen is the author of many books on rifles, rifle shooting, and hunting, and for many years handled the Dope Bag Department of *The American Rifleman.* He was also editor of the Rifle and Pistol Department of *Outdoor Life.* Colonel Whelen is at present Manager of our Gun Department, having retired from active service in the Army in August, 1935, after 33 years of service.

COLONEL JULIAN S. HATCHER is an officer of the Ordnance Department of the Regular Army, where he is now the authority on small arms. Graduating from the Naval Academy in 1909, he entered the Regular Army in 1910, and was transferred to the Ordnance Department in 1913. Since then he has done much original design work on small arms, as well as a great deal of shooting. He is one of the best pistol shots in America, and has won many matches, including the pistol championship of England several years ago at the Bisley matches. Among his many works on the subject are numerous articles on small arms for *The Scientific American, The American Rifleman,, Army Ordnance,* etc., as well as a contribution, by special invitation, to *The Encyclopedia Britannica.* He is the author also of "Machine Guns" (1917), "Pistols and Revolvers and Their Use" (1927), "Textbook of Pistols and Revolvers" (1934), and "Textbook of Firearms Identification" (1935). When the Federal Bureau of Investigation was expanded in the Department of Justice, after the passage of the "Lindbergh Law," Mr. J. Edgar Hoover, Director of the Bureau, sought and obtained from the War Department permission for Colonel Hatcher to act as a special lecturer on firearms for the instruction of agents assigned to criminal investigation. Later, when the Police School of the Department of Justice was established in 1935, Colonel Hatcher was enrolled as a member of the faculty, in which capacity he is still serving. It is modest to say that he knows more about handguns, on which he is here advising our customers, than anyone else in the world.

MAJOR CHARLES ASKINS is a member of the Officers Reserve Corps of the United States Army. He has been the leading authority on the shotgun in America for the past thirty years, and has been writing books and magazine articles on arms, ammunition, and bird shooting since 1887. He is the dean of sporting writers, being the author of three of our authoritative textbooks, "The American Shotgun," "Modern Shotguns and Loads," and "Game Bird Shooting." He is at present Shotgun Editor for the magazine *Outdoor Life.* One of the very best field shots in the country, he lives in a locality where he has the maximum opportunity for field shooting. He has made some remarkable records. In 1903 he killed 23 quail straight, and 54 during the afternoon. In 1892 he killed 25 prairie chickens straight from horseback, although he adds there were no witnesses except the horse. Other remarkable performances were the killing of 11 pintails on the wing from one flock, and 20 snipe straight. When Major Askins writes, he speaks from a whole lifetime of experience.

Section I

Official National Rifle Association Targets

THE National Target and Supply Company is the sole and exclusive manufacturer and distributor of Official National Rifle Association targets. These targets are now being supplied to dealers, to individuals, to Rifle and Pistol Clubs, to summer camps and allied organizations, and to Police Departments in every state in the union.

Official N. R. A. targets are the only targets on which competitive scores will be recognized by the National Rifle Association. They are the only small bore rifle targets used in the National matches at Camp Perry, and they are used in all rifle and pistol matches conducted or sponsored by the N. R. A. This is highly important to all shooters who engage in local, state, or national tournaments, because they will want to practice on the same kind of targets as are used in these matches. It is also important to the thousands of shooters who do not attend these tournaments but who want to compare their own scores with those made by the leading shooters of the country.

Manufacturing targets that comply with the rigid specifications of the National Rifle Association is a highly technical process which has only been perfected over a period of years. The texture, quality, and weight of the target paper and target tagboard have been scientifically developed and are manufactured especially for this company. The ink used must produce a jet black, non-glare surface, and all measurements must be absolutely accurate. For this reason, every official N. R. A. target must be lithographed—not printed. Comparative tests of the two processes have proved conclusively that only by lithographing can be produced the clearness and sharpness of line so necessary in a target.

Official N. R. A. targets have the following unique and exclusive features:

1. They are lithographed, not printed.
2. Scientifically developed target paper and tagboard used.
3. Absolute accuracy of all dimensions.
4. Uniform sized scoring rings.
5. Jet-black, non-glare bullseyes, free from all streaks or light spots.
6. Clean, crisp "White Rings" within the bullseyes.
7. All bullet-holes break sharp and clean.
8. Greater ease and accuracy in analyzing scores.
9. The only targets on which competitive scores will be recognized by the National Rifle Association.

Owing to the very great volume of targets which this company manufacturers, it is able to price Official N. R. A. targets so low that they cost the customer no more than the ordinary printed target.

HOW TO ORDER

Where the target wanted is numbered, order by number; otherwise, give the name of the target.

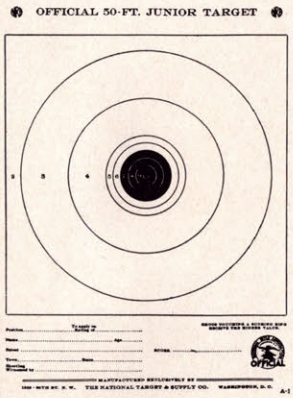
Unless you have established your credit with us, send remittance with your order or shipment will be made C. O. D.

Advise how shipment is to be made: Freight, Express, or Parcel Post.

NOTE: If shipments by Parcel Post are desired, be sure to include postage with your order.

OFFICIAL NRA SMALL BORE RIFLE TARGETS

A-1

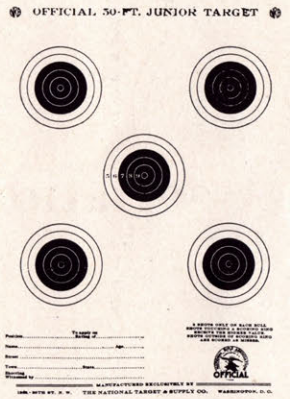


50-Foot Junior Rifle—Target Paper.

Used in early stages of Junior qualifications course and for practice shots. Two to ten count.
Form for scoring at bottom of target.
Single Bull, 7-8-9 and 10 Rings Black.
Size 7 x 9¼ inches.

	Price	Shipping Weight
Per 100	$ .35	1 lb.
Per 500	1.58	4 lbs.
Per 1000	2.63	8 lbs.

A-2



50-Foot Junior Rifle—Target Paper.

Used in advanced stages of Junior qualifications and for practice by experienced Junior marksmen.
Five to ten count. Two shots only on each bull.
Five bulls. 7-8-9 and 10 Rings Black.
Size 7 x 9¼ inches.

	Price	Shipping Weight
Per 100	$ .40	2 lbs.
Per 500	1.80	6 lbs.
Per 1000	3.00	11 lbs.

A-3

This is identical with A-5, except that it is on Tagboard and has a form for scoring at the bottom of the target and is used in all Junior Competitive matches conducted or sporsored by the National Rifle Association.
Two shots only on each bull.

	Price	Shipping Weight
Per 100	$ .65	3 lbs.
Per 500	2.93	11 lbs.
Per 1000	4.88	22 lbs.

A-4

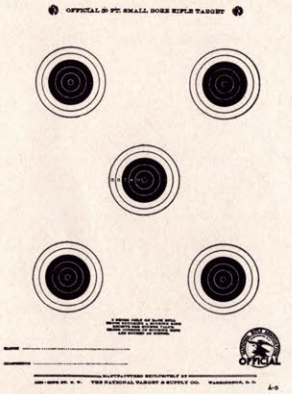
50-Foot—Special Tagboard.

This target is official in all dimensions but is used for practice only.
It is also used for sighting shots prior to firing for record on A-5.
Single Bull. 7-8-9 and 10 Rings Black.
Size 3¾ x 5¾ inches.

	Price	Shipping Weight
Per 100	$ .35	1 lb.
Per 500	1.58	5 lbs.
Per 1000	2.63	9 lbs.

Note: The Bull in this target is identical with the Bulls in A-5.

A-5

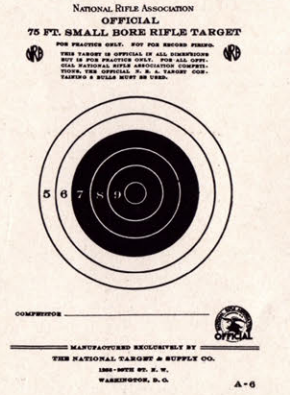


50-Foot—Special Tagboard.

This is the official standard target for 50-foot gallery rifle shooting, and is used in all Senior Competitive and Qualification matches conducted or sponsored by the N. R. A.
Five Bulls. 7-8-9 and 10 Rings Black. Two shots only on each Bull.
Size 7¾ x 10¼ inches.

	Price	Shipping Weight
Per 100	$ .65	3 lbs.
Per 500	2.93	11 lbs.
Per 1000	4.88	22 lbs.

A-6


National Rifle Association
OFFICIAL
75 FT. SMALL BORE RIFLE TARGET
FOR PRACTICE ONLY. NOT FOR RECORD FIRING.
THIS TARGET IS OFFICIAL IN ALL DIMENSIONS BUT IS FOR PRACTICE ONLY. FOR ALL OFFICIAL NATIONAL RIFLE ASSOCIATION COMPETITIONS A STANDARD NRA TARGET CONFORMING 2 SCALE MUST BE USED.
COMPETITOR
MANUFACTURED EXCLUSIVELY BY
THE NATIONAL TARGET & SUPPLY CO.
WASHINGTON, D.C.
A-6

75-Foot—Target Paper.

This target is official in all dimensions but is used for practice only.
Also used for sighting shots prior to firing for record on A-7.
Single Bull. 7-8-9 and 10 Rings Black.
Size 4 x 6 inches.

	Price	Shipping Weight
Per 100	$ .35	1 lb.
Per 500	1.58	4 lbs.
Per 1000	2.63	8 lbs.

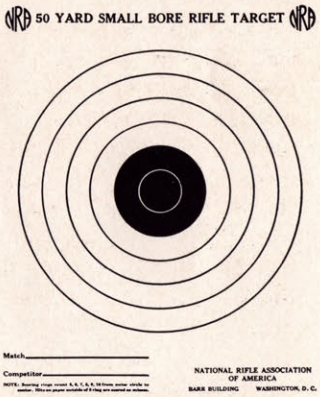
A-7

75-Foot—Special Tagboard.

This is the official standard target for 75-foot gallery rifle shooting and is used in all competitive and qualification matches conducted or sanctioned by the N. R. A.
Five Bulls. 7-8-9 and 10 Rings Black. Two shots only on each Bull.
Size 10½ x 12 inches.

	Price	Shipping Weight
Per 100	$ .80	4 lbs.
Per 500	3.60	17 lbs.
Per 1000	6.00	34 lbs.

A-8



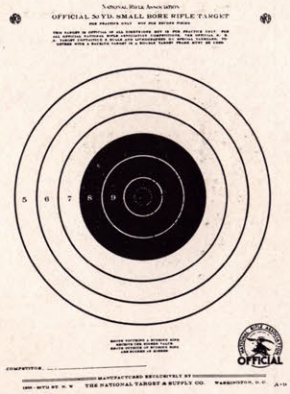
50-Yard—Target Paper.

This target is official in all dimensions, but is used for practice only with telescope sights.
Single Bull. 9-10 Rings Black.
Diameter of bullseye 1.89 inches.
Size 7 x 9¼ inches.

	Price	Shipping Weight
Per 100	$ .60	2 lbs.
Per 500	2.70	6 lbs.
Per 1000	4.50	11 lbs.

OFFICIAL NRA SMALL BORE RIFLE TARGETS

A–9



50-Yard—Target Paper.

This target is official in all dimensions, but is used for practice only with metallic sights.

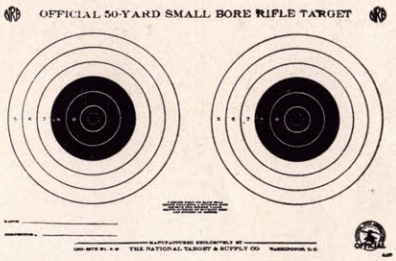
This target is identical with A–8, except that the 8-9 and 10 Rings are Black.

Diameter of bullseye 2.89 inches. Single Bull.

Size 7 x 9½ inches.

	Price	*Shipping Weight*
Per 100	**$ .60**	2 lbs.
Per 500	**2.70**	6 lbs.
Per 1000	**4.50**	11 lbs.

A–10



50-Yard—Target Paper.

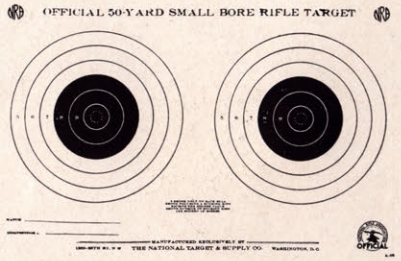
This target is official in all dimensions, but is used for pracitce only.

Two Bulls. 8-9-10 Rings Black. Five shots only on each Bull.

Size 14 x 9 inches.

	Price	*Shipping Weight*
Per 100	**$ .85**	3 lbs.
Per 500	**3.83**	11 lbs.
Per 1000	**6.38**	21 lbs.

A–11



50-Yard—Special Tagboard.

This is exactly the same target as A–10 except that it is lithographed on Tagboard stock. It is used in all official National Rifle Association tournaments. For all N. R. A. competitions this target, together with a backing target in a double target frame, must be used.

Five shots only on each Bull.

Size 14 x 9 inches.

See also Backing Targets below.

	Price	*Shipping Weight*
Per 100	**$1.00**	4 lbs.
Per 500	**4.50**	17 lbs.
Per 1000	**7.50**	34 lbs.

A–12

50-Yard—Target Paper.

For practice only. Not for record firing.

Five Bulls, 8-9-10 Rings Black.

Size 14 x 14 inches.

Two shots only on each Bull.

	Price	*Shipping Weight*
Per 100	**$1.50**	4 lbs.
Per 500	**6.75**	17 lbs.
Per 1000	**11.25**	34 lbs.

A–13

100-Yard—Target Paper.

This target is official in all dimensions, but is used for practice with telescope sights.

Single 4 inch Bull. 9-10 Rings Black.

Size 14 x 14 inches.

	Price	*Shipping Weight*
Per 100	**$ 1.50**	4 lbs.
Per 500	**6.75**	17 lbs.
Per 1000	**11.25**	34 lbs.

A–14

100-Yard—Target Paper.

This target is official in all dimensions, but is used for practice only.

Single 6-inch Bull. 8-9-10 Rings Black.

Size 14 x 14 inches.

	Price	*Shipping Weight*
Per 100	**$1.30**	4 lbs.
Per 500	**5.85**	17 lbs.
Per 1000	**9.75**	34 lbs.

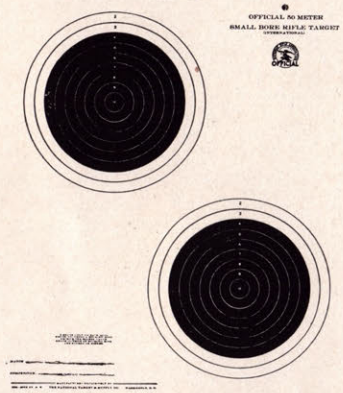
OFFICIAL NRA SMALL BORE RIFLE TARGETS

*A–15

100-Yard—Special Tagboard.
This is exactly the same target as illustrated above except that it is lithographed on special tagboard stock, and its size is 14 x 16 inches.
For all official NRA competition, this target, together with a backing target in a double target frame, must be used. See also "Backing Targets" below.

	Price	Shipping Weight
Per 100	**$ 1.50**	7 lbs.
Per 500	**6.75**	30 lbs.
Per 1000	**11.25**	60 lbs.

*A–20



50-Meter International—Special Tagboard.
This is the official standard target for 50-meter rifle shooting and is used in all official NRA tournaments. For all NRA competitions this target, together with a backing target in a double target frame, must be used.
Two Bulls. 4-5-6-7-8-9-10 Rings Black.
Size 14 x 16 inches. See also "Backing Targets" below.

	Price	Shipping Weight
Per 100	**$ 1.50**	7 lbs.
Per 500	**6.75**	30 lbs.
Per 1000	**11.25**	60 lbs.

A–16

Discontinued

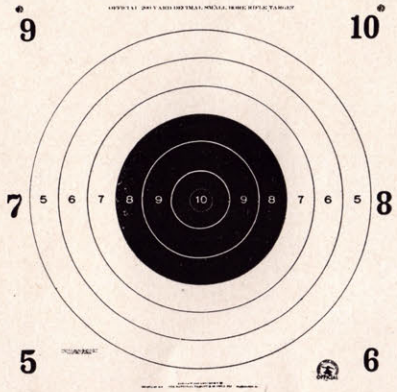
A–17

Discontinued

A–18

Discontinued

A–21



200-Yard Decimal—Target Paper.
This is the official standard target for 200-yard rifle shooting and is used in all matches sanctioned or conducted by the NRA.
Target pasters for repairing bullet holes are used on this target.
Single Bull. 8-9-10 Rings Black.
Size 28 x 28 inches.

	Price	Shipping Weight
Per 100	**$ 3.50**	10 lbs.
Per 500	**15.75**	46 lbs.
Per 1000	**26.25**	92 lbs.

.40 for 10

A–19

50-Meter International—Special Tagboard.
This target is official in all dimensions, but is used for practice only.
Single Bull. 4-5-6-7-8-9-10 Rings Black.
Size 10½ x 12 inches.

	Price	Shipping Weight
Per 100	**$1.25**	4 lbs.
Per 500	**5.63**	17 lbs.
Per 1000	**9.38**	34 lbs.

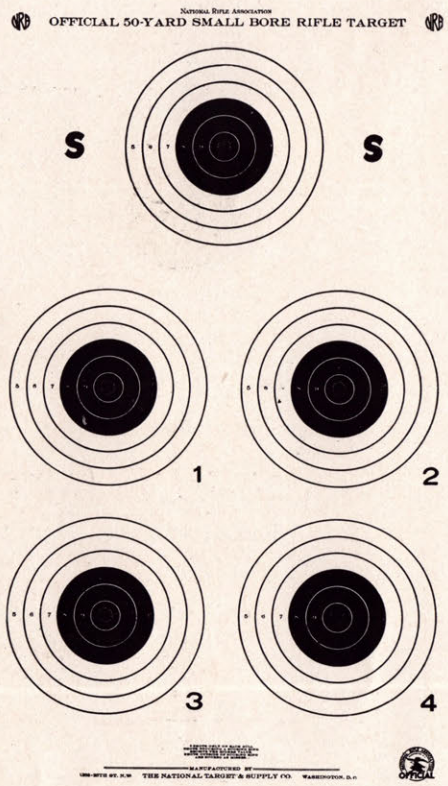
A–22

200-Yard Decimal Centers—Target Paper.
This is the center (only) of the 200-yard decimal target A–21. The use of centers saves expense, as well as time, in changing targets.
8-9-10 Rings Black.
Size 10½ x 11 inches.

	Price	Shipping Weight
Per 100	**$1.00**	3 lbs.
Per 500	**4.50**	12 lbs.
Per 1000	**7.50**	23 lbs.

OFFICIAL NRA SMALL BORE RIFLE TARGETS

A–23



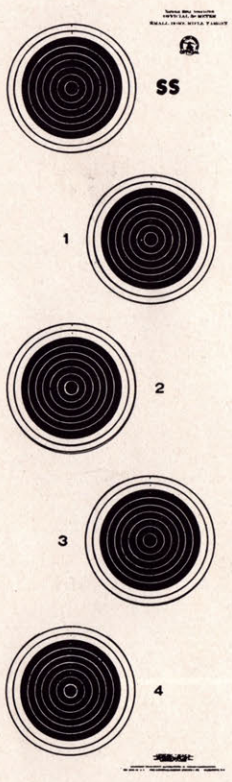
50-Yard Tournament Target—Special Tagboard.

This target is made especially for tournament shooting and its purpose is to save the time consumed in changing individual targets. 5 Bulls, each bull being identical with the bulls on Target A–11. The top bull is used for sighting shots and the other four for record firing. The bulls for record firing are numbered 1-2-3 and 4, and must be shot on in that order. The targets are numbered to make it easier to mark ties under NRA rules.

Size 14 x 24 inches. See also "Backing Targets" below.

	Price	*Shipping Weight*
Per 100	**$ 4.00**	10 lbs.
Per 500	**18.00**	45 lbs.
Per 1000	**30.00**	95 lbs.

A–24



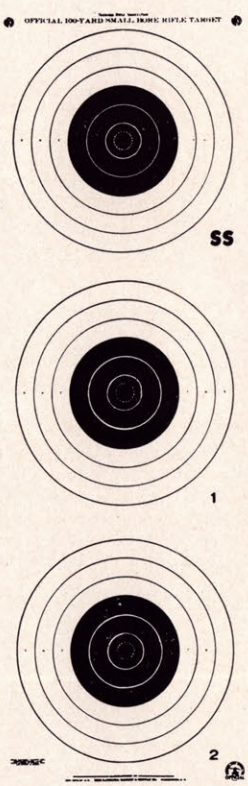
50-Meter Tournament Target—Special Tagboard.

This target is made especially for tournament shooting and its purpose is to save the time consumed in changing individual targets. 5 Bulls, each bull being identical with the bulls on Target A-20. The top bull is used for sighting shots and the other four for record firing. The bulls for record firing are numbered 1-2-3 and 4, and must be shot on in that order. The targets are numbered to make it easier to mark ties under NRA rules.

Size 14 x 42 inches. See also "Backing Targets" below.

	Price	*Shipping Weight*
Per 100	**$ 5.00**	16 lbs.
Per 500	**22.50**	75 lbs.
Per 1000	**37.50**	155 lbs.

A–25



100-Yard Tournament Target—Special Tagboard.

This target is made especially for tournament shooting and its purpose is to save the time consumed in changing individual targets. 5 Bulls, each bull being identical with the bulls on Target A–15. The top bull is used for sighting shots and the other four for record firing. The bulls for record firing are numbered 1-2-3 and 4, and must be shot on in that order. The targets are numbered to make it easier to mark ties under NRA rules.

Size 14 x 42 inches. See also "Backing Targets" below.

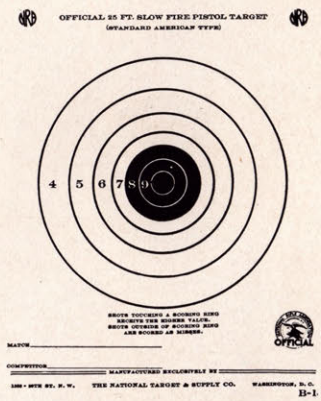
	Price	*Shipping Weight*
Per 100	**$ 5.00**	16 lbs.
Per 500	**22.50**	75 lbs.
Per 1000	**37.50**	155 lbs.

BACKING TARGETS

For all official NRA competitions at 50 yards, 100 yards, and 50 meters, targets A–11, A–15, and A–20, or Targets A–23, A–24, and A–25 must be used, together with a plain backing target in a double target frame. We can furnish these plain backing targets for A–11 at 40¢ per hundred, for A–15 and A–20 at 75¢, for A–23 at $1.10, and for A–24 and A–25 at $2 per hundred. These prices are net—no discount.

OFFICIAL NRA PISTOL TARGETS—STANDARD AMERICAN TYPES

B–1



25-Foot Slow Fire—Special Tagboard.

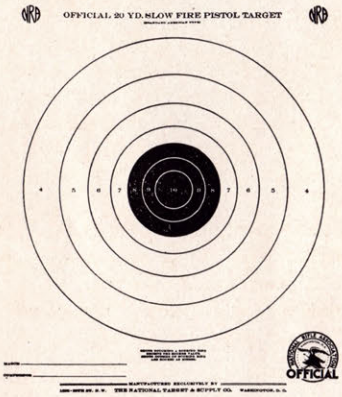
This is the standard American target for pistol and revolver shooting at 25 feet. It is reduced proportionately from the Standard American 20-yard slow fire pistol target.

8-9-10 Rings Black.

Size 4¾ x 6 inches.

	Price	*Shipping Weight*
Per 100	**$ .40**	1 lb.
Per 500	**1.80**	4 lbs.
Per 1000	**3.00**	8 lbs.

B–4



20-Yard Slow Fire—Special Tagboard.

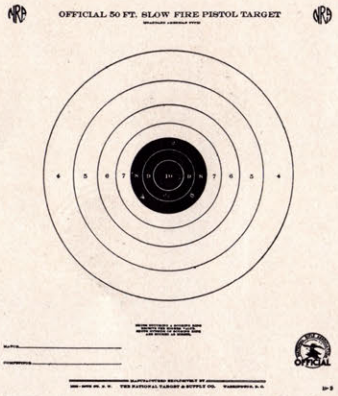
This is the Standard American 20-yard pistol target and is used for all slow fire pistol and revolver shooting at 20 yards.

8-9-10 Rings Black.

Size 10½ x 12.

	Price	*Shipping Weight*
Per 100	**$ .80**	4 lbs.
Per 500	**3.60**	17 lbs.
Per 1000	**6.00**	34 lbs.

B–2



50-Foot Slow Fire—Special Tagboard.

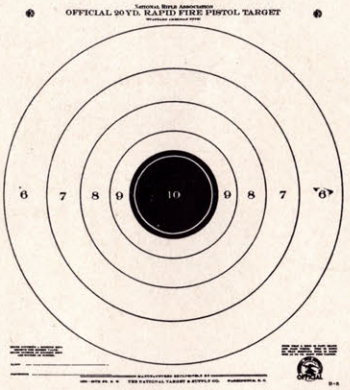
This is the Standard American target for pistol and revolver shooting at 50 feet. It is also reduced proportionately from the 20-yard slow fire Standard American Pistol Target—B–4.

8-9-10 Rings Black.

Size 10½ x 12 inches.

	Price	*Shipping Weight*
Per 100	**$ .80**	4 lbs.
Per 500	**3.60**	17 lbs.
Per 1000	**6.00**	34 lbs.

B–5



20-Yard Rapid Fire—Special Tagboard.

The diameters of the rings in this target are exactly twice the diameters of the rings of the 20-yard Standard American Slow Fire target—B–4.

It is used for all timed and rapid fire shooting with the pistol or revolver at 20 yards.

Note that the 9-ring is part black and part white. This is done so that the sighting bull is the same size as the 20-yard slow fire target.

Size 10½ x 12.

	Price	*Shipping Weight*
Per 100	**$ .80**	4 lbs.
Per 500	**3.60**	17 lbs.
Per 1000	**6.00**	34 lbs.

B–3

50-Foot Rapid Fire—Special Tagboard.

The diameters of the rings in this target are exactly twice the diameters of the rings of the 50-foot slow fire target—B–2.

This target is used for timed and rapid fire shooting with the pistol or revolver at 50 feet.

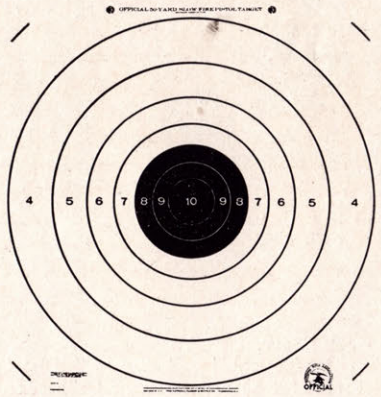
9-10 Rings Black.

Size 10½ x 12 inches.

	Price	*Shipping Weight*
Per 100	**$ .80**	4 lbs.
Per 500	**3.60**	17 lbs.
Per 1000	**6.00**	34 lbs.

B–6

OUTDOOR PISTOL TARGETS



50-Yard Slow Fire—Target Paper.

This is the 50-yard standard American pistol target and is used for all slow fire pistol and revolver shooting at 50 yards.

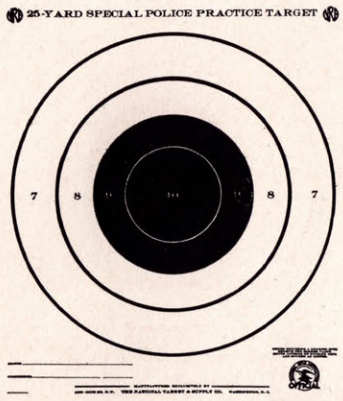
8-9-10 Rings Black.

Size 28 x 28.

	Price	*Shipping Weight*
Per 100	**$ 3.00**	10 lbs.
Per 500	**13.50**	46 lbs.
Per 1000	**22.50**	92 lbs.

OFFICIAL NRA PISTOL TARGETS—STANDARD AMERICAN TYPES

B–11



25-Yard Special Police Target—Special Tagboard.

This is another special police training target, similar to B–10, with scoring rings proportionately larger, for use at the longer range.

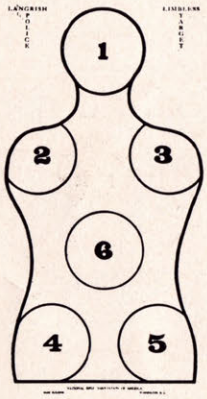
Used at 25 yards indoors or outdoors.

9-10 Rings Black.

Size 12 x 14.

	Price	*Shipping Weight*
Per 100	**$ 1.40**	6 lbs.
Per 500	**6.30**	23 lbs.
Per 1000	**10.50**	45 lbs.

LANGRISH POLICE SILHOUETTE



Special Paper.

This is a silhouette of a man with five bullseyes imprinted over the five vital areas of the body. It is used by police at 15 yards in connection with their quick and rapid fire pistol training.

Size 23 x 40.

	Price	*Shipping Weight*
Per 100	**$ 4.75**	16 lbs.
Per 500	**21.38**	80 lbs.
Per 1000	**35.63**	160 lbs.
	.50 for 10	

TURKEY TARGETS

Turkey Targets lithographed in three colors. Special Target Paper. The usual Target for Turkey Shoots.

Complete rules for three different contests printed on target. Five Turkeys on each target.

Size 9½ x 12½ inches.

	Price	*Shipping Weight*
Per 100	**$ 3.00**	4 lbs.
Per 500	**13.50**	17 lbs.
Per 1000	**22.50**	34 lbs.

TARGET PASTERS

White or black. 500 in each roll; 12 rolls in each carton.

Per roll $ .20
Per carton 2.00 } Net—no discount

Note: Separate target price lists furnished on request.

PRICE LIST

OFFICIAL NATIONAL RIFLE ASSOCIATION TOURNAMENT FORMS

Order by this number	*Description*	*25*	*50*	*100*	*250*	*500*	*1000*
SA–1	Range Assignment		**1.00**	**1.50**	**3.00**	**5.00**	
SA–2	Combination four stage Score card and Squadding tickets			**2.00**	**4.00**	**7.00**	**12.00**
SA–3	Small Bore Squadding Ticket			**1.00**	**2.00**	**3.00**	**5.00**
SA–4	Combination single stage Score card and Squadding Ticket—20 shot		**1.25**	**2.00**	**4.00**	**7.00**	**12.00**
SA–5	Official NRA Registration Card			**1.50**	**3.00**	**5.00**	**8.00**
SA–6	Individual Entry Blanks				**4.00**	**7.00**	**12.00**
SA–7	Two man Entry Blanks		**1.25**	**2.00**	**4.00**	**7.00**	**12.00**
SA–8	Official Team Entry Blanks		**1.25**	**2.00**	**4.00**	**7.00**	**12.00**
SA–9	Combination three stage Score card and Squadding ticket			**3.00**	**6.00**	**9.00**	**14.00**
SA–10	Combination single stage Score card and Squadding ticket—10 shot			**2.00**	**4.00**	**7.00**	**12.00**
SA–11	Combination two stage Score card and Squadding ticket			**3.00**	**6.00**	**9.00**	**14.00**
SA–12	Combination four man, two stage Score card and Squadding ticket	**1.50**	**2.50**	**4.00**			
SA–13	Official NRA Squadding sheet	**1.50**	**2.50**	**4.00**	**8.00**	**15.00**	
SA–14	Bulletin Sheet (Small Bore Statistical Sheet)	**2.00**	**3.50**	**6.00**	**12.00**		
	Target Spotters, 2 inches in diam., black one side, white on reverse side.			**1.00**		**4.00**	**7.50**
	Wooden pointed sticks for holding Spotters in place			**.50**		**2.00**	**3.75**

Minimum Order—the lowest quantity quoted on. All Prices F.O.B. Washington, D. C.

Note: Cuts of these forms appear in the booklet entitled "How to Organize and Conduct a Rifle and Pistol Tournament" Published by the National Rifle Association and sold by them at 50¢ per copy.

Section II

Small Bore Target Rifles

Introduction by Colonel Townsend Whelen

SMALL bore rifle shooting is a highly specialized and rather technical form of sport, and certain equipment, by a process of gradual development and elimination, has proved decidedly best for it. There is an almost complete unanimity of opinion among our more successful shooters as to the best rifles, sights, and ammunition for such shooting, and the correctness of this opinion is borne out by the continual winning of almost all the important matches and competitions with such rifles, sights, and ammunition.

It would seem that beginners and others going in for this form of sport should obtain this preferred type of equipment at the start, rather than struggle with equipment that is not suitable, and with which results will be more or less discouraging. Why waste time and money with unsuitable arms? Accordingly, we have instituted our National Time Payment Plan whereby all shooters can obtain the preferred types of equipment at the start, paying for the same from their monthly savings, in the same modern manner as they purchase automobiles, radios, etc.

We would particularly refer our friends to the "Small Bore Rifle Handbook" which completely describes this form of shooting, and gives valuable suggestions as to equipment and the technique of marksmanship. Copies may be obtained by writing to the Sporting Arms and Ammunition Manufacturers' Institute, 103 Park Avenue, New York, N. Y., and enclosing fifteen cents in cash or stamps to cover cost of mailing. The advice which is contained in this catalogue is in strict conformity with the principles laid down in that authorized textbook. The handbook will also be found invaluable to any rifle shooter, no matter whether he uses a small or large bore rifle, for either target or game shooting.

The Official Rule Book containing the rules which govern rifle competitions in the United States can be had from the National Rifle Association, Barr Building, Washington, D. C. The targets used in small bore target shooting are those described in Section I of this catalogue.

The modern technique of rifle shooting, either on target or game, is best learned by taking up small bore target shooting. This is also the most economical and convenient of all forms of rifle shooting. Rifle ranges can be constructed anywhere in suburban or farming country, and the "Small Bore Rifle Handbook" gives complete instructions for building them. The individual can either train himself in accordance with the principles laid down in the handbook, or he can join a club affiliated with the National Rifle Association and have the benefit of shooting shoulder to shoulder with experienced shooters. Ammunition is very cheap, so that the cost of a day's shooting is insignificant.

We list below the rifles, sights, and other equipment which have proved to be most suitable for small bore target shooting, with full confidence that, if our friends obtain this type of equipment and follow the suggestions already given, they will be uniformly successful at this interesting sport.

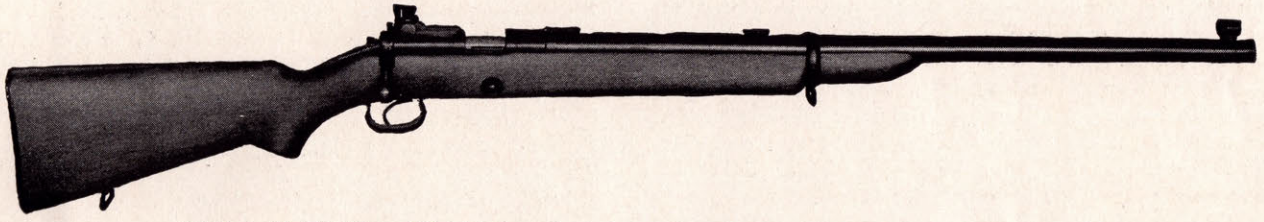
THE WINCHESTER MODEL 52 TARGET RIFLE

The Winchester Model 52 Target Rifle has been the standard and most successful small bore target rifle since its introduction about 1920. Since that year it has undergone a constant series of improvement as a result of experiments on the range, until, today, it is a most up to date weapon. It is used almost exclusively by the leading small bore rifle shooters of America. Indeed, it may be said that no matter what rifle a beginner starts with, if he continues in the game, he will eventually come to the Model 52 rifle as the preferable gun.

Winchester Model 52 Rifles are made in two general types—one with standard weight barrel and one with heavy barrel. In each type a large variety of sighting equipment is available. There is no difference in the rifling of the barrel, the stock, the breech action, or the quality. All these rifles shoot the .22 Long Rifle cartridge only; all are bolt action repeating rifles having a detachable five-shot magazine (ten-shot magazines can also be supplied), and may be used either as a repeating or single shot arm; all barrels are round and 28 inches long. We will mail on request and without charge a special folder which completely describes these rifles.

The Standard Rifle with standard weight barrel, shown above, (weight of rifle about nine pounds) has been in continual use since 1920, and has always given excellent satisfaction. Today, this type should be chosen by those small bore shooters who do not shoot oftener than two or three times a month, and, hence, do not keep their shooting muscles in training for steady holding of the heavy barrel rifle. It is also desirable for ladies, and for those who wish to use their rifles both for target and small game shooting. It may be said that every year there are a number of shooters who reach the very top rank with this standard rifle. It is regularly supplied with the following sight equipment, and at the following prices:

With Military Blade Front and Folding Leaf Rear Sights as illustrated above	**$46.50**
With Lyman No. 17A Front and Folding Leaf Rear Sights	**49.00**
With Miltary Blade Front and Lyman No. 48T Receiver Sights	**56.50**
With Military Blade Front and Lyman No. 48J Receiver Sights	**58.00**
With Lyman No. 17A Front, and Lyman No. 48J Receiver Sights	**60.50**



Winchester Model 52 Target Rifle with Heavy Barrel, Lyman No. 48J Rear Sight, and Lyman No. 17G Front Sight

The Heavy Barrel Model 52, as its name implies, has a heavier barrel than the standard Model 52, and it has a transverse slot for the front sight instead of the stud supplied with the standard rifle. It weighs approximately 10½ pounds. Its advantages are first that a heavy barrel is always a trifle more accurate than a light barrel, and less affected by slightly varying tensions in holding, other things being equal. Second, those riflemen who keep their shooting muscles in trim by practice at least weekly find that they can hold a rifle of 10½ pounds weight a trifle steadier than one of 9 pounds. Thus, while the difference between the heavy and standard barrel rifles may not be demonstrable in a single day of shooting, yet in a season of shooting the well trained small bore shooter will average one or more points per score higher with the heavy barrel rifle. Since this heavy barrel was introduced about 1931, it has won over 50% of all the more important small bore rifle matches, and it is most decidedly the rifle for the small bore shooter who wishes to go in for highly competitive small bore matches. Those who cannot practice so steadily sometimes find that the effort of holding this heavier rifle introduces a slight trembling which is, of course, very detrimental. But we do not wish to create the impression that it takes a large, strong man to hold the heavy barrel rifle steadily. It merely takes muscles in fairly good training.

The heavy barrel rifle is regularly supplied with the following sight equipment and at the following prices:

With Lyman No. 17G Front and Folding Leaf Rear Sights	**$54.00**
With Lyman No. 17G Front and Lyman No. 48J Receiver Sights	**65.50**

IRON SIGHTS FOR WINCHESTER MODEL 52 RIFLES

It will be noted that both the standard barrel and the heavy barrel rifles are listed with various sight equipment. The best front sights for target shooting by those having fairly keen eyesight are the Lyman No. 17 (17A for standard barrel and 17G for heavy barrel) or Redfield Globe front sight. These sights have a hood to protect from sun glare and interchangeable insert discs with apertures and posts of various sizes. The price of each is $2.50, but on the rifles on which they are listed one can be substituted for the other without charge. The standard flat top post sight on the standard barrel rifle is good for those whose eyesight is not very keen, as is also the Redfield protected gold face Patridge front sight at $1.50 for the standard barrel rifle only.

The standard Winchester folding rear sight is a fair target sight, but, as it is excelled by other sights, we do not find many small bore shooters using it these days. The most successful rear sights are the Lyman No. 48 and 52, the Vaver, and the Redfield No. 100-A. These sights are made in several types. The most generally used rear sight has been the Lyman No. 48J which has large knurled adjusting screws reading to quarter minutes, and has proved to be very satisfactory. The new Lyman No. 52 extension sight now promises to surpass it in popularity. The Vaver rear sight is the newest sight for the Model 52, and is making many friends because of its precision manufacture, easy adjustment, and freedom from backlash and play. All Vaver sights adjust to quarter minutes for both elevation and windage. For prices see Section IX. The Redfield No. 100-A rear sight also adjusts to quarter minutes and costs $12.

All of the above rear sights are secured to the rear of the receiver in front of the bolt handle. Recently, certain types of rear sights with extension bases that bring the sight closer to the eye have become increasingly popular. Bringing the cup disc of the rear sight closer to the eye increases the orthoptic effect, and renders the front sight and target in a more distinct focus, thus tending to a more accurate aim. These extension sights all adjust to quarter minutes on the same principle as the above receiver sights, and comprise the following: Lyman No. 52, price $13; the Vaver Dial Sight with extension for right side only, price $17.50.

For those who use both iron and scope sights and who have the stock on their rifles altered with high comb or cheek pad for the telescope, two Vaver extension sights are made of telescope height—the No. 35 MIERT for the right side, price $16; and the No. 35 MIELT for left side, price $15. (Note: The right-handed shooter usually prefers the sight on the left side as when he takes his rifle down from his shoulder to adjust it the sight comes closer to his eye and he can see the adjustments and scales more easily.) These two sights permit the scope height stock to be used with them, and both remove easily with a screwdriver when the scope is placed on the rifle. To bring the front sight to the corresponding scope height a Vaver quick detachable barrel band No. 35 EBB, price $4.50, can be uesd on the heavy barrel rifle to hold either the Lyman No. 17G or Redfield globe front sights at scope height. On the standard barrel rifle the Vaver Quick Detachable Front Sight Block No. 35-XB, price $2.00, accomplishes the same purpose.

Where one uses the standard barrel rifle for both target shooting and hunting we believe it should be fitted with a Lyman No. 48T receiver sight, price $11.50, which has its Lyman type large aperture much better located for hunting, or else with a Vaver No. 35 MIL receiver sight, price $15. For hunting, the cup disc should be unscrewed and the largest Lyman type aperture only used. With these rear sights, it is best to use the Redfield protected gold faced Patridge front sight, price $1.50. Its gold face should be smoked black for target shooting when it is exactly like the standard flat top post front sight. For game shooting the gold face should be rubbed bright with the fingers.

Where the shooter is going in for competitive small bore target shooting, using iron and scope sights, we believe it is best to alter the stock for scope use, either by having a high comb inletted into his stock (see Section X) or else lacing a Jostam Monte Carlo cheek pad on the stock, and then fitting the rifle with the Vaver Dial Sight, telescope height with extension, with Vaver Quick Detachable barrel band, and with Redfield Globe Front Sight.

Please note that where rifle is purchased from us we mount the sights properly on the rifle without charge.

TELESCOPE SIGHTS FOR WINCHESTER MODEL 52 RIFLES

Winchester Model 52 Heavy Barrel Target Rifle with Telescope Sight and "National" inletted high comb cheek piece for use with scope

About one half of the various small bore matches are restricted to the use of iron sights, that is, sights which do not contain glass, such as described above. The other matches permit the use of any sights, including telescopic. The advantage of the best target telescope sights over iron sights is such that if the small bore shooter is not equipped with one he is greatly handicapped when shooting in matches in which they are permitted. Very generally speaking, while the leading competitors in any match may score possibles at all ranges with iron sights, the average score for iron sights is about two points lower than the average score for telescope sights. Also, while a man may get a possible with iron sights, he is almost certain not to have so many shots in the X-ring centering the 10-ring as with telescope sights, and it is this

TELESCOPE SIGHT STOCKS

With all of the above telescope sights the line of aim through the telescope is approximately ¾″ higher than the line of aim through iron sights. It is impossible to have these scopes mounted any lower on the rifle. As the standard stock on all Winchester Model 52 rifles is made for use with iron sights, the drop from the line of aim through the telescope sight to the comb of the stock will be too great for steady aiming and holding with telescope sight. No really good results, as a rule, can be expected with telescope sights on rifles having open sight stocks until something has been done to raise the comb of the stock to telescope height.

The cheapest alteration to the stock to make the comb of proper height for a telescope sight is to lace a Jostam Monte Carlo leather cheek pad ¼″ high on the stock to raise the comb. The pad is laced on when the scope only is used and is taken off when using iron sights. While this raises the comb only ¼″, it also makes the comb much wider, so that it actually feels as though it had been raised about ½″. This is a fairly satisfactory arrangement, and we can furnish the Jostam cheek pad at $3.

Decidedly the best method, however, when a scope is used on the heavy barrel Winchester Model 52 rifle is to have a National telescope sight high comb and cheek piece of matched walnut dovetailed, inletted, and cemented into the stock as shown in the above cut. We do this work in our own shop, refinishing the stock so that one could never tell that a piece of walnut had been inletted, the high comb and cheek piece looking as though they were an original part of the stock. Our price for inletting and finishing this telescope sight comb and cheek piece as shown in the above cut is $17.50, or for similarly inletting a simple Monte Carlo comb only without cheek piece $10.

When such a high comb has been placed on a stock, that stock is satisfactory only for use with a telescope sight. We can then furnish this rifle with a Vaver Micrometer Dial Sight, telescope height with extension, a Vaver Quick Detachable barrel band, and a Redfield Globe front sight or a Lyman 17G front sight to go on this barrel band. These sights have the same line of aim above the bore as has the telescope sight, and are quickly detachable. Thus, one can at any time use either the scope or iron sights with the stock with the National telescope height comb, and it is a very great advantage to have the same height of comb for both sights as it tends to much more uniform aim and holding. In fact, the outfit shown in the above cut, Winchester Model 52 heavy barrel rifle, scope with large objective and iron sights of scope height is the very last word in a high grade and practical small bore target rifle for competitive target shooting.

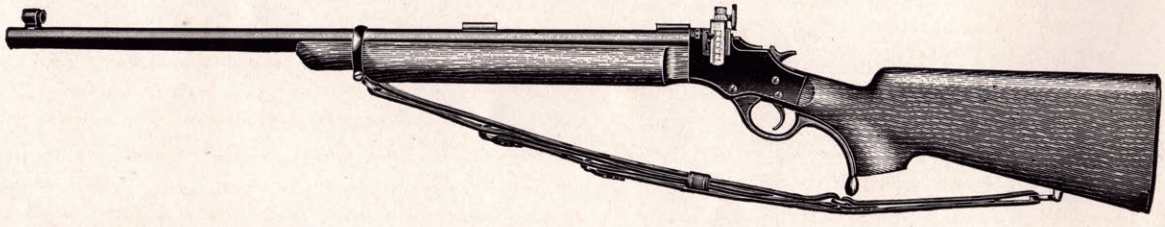
CUSTOM BUILT STOCKS

We are prepared to build special stocks to order for Winchester 52 rifles. These stocks are built to the customer's exact measurements, specifications, and ideas, and of the finest, well seasoned and figured American walnut. They can be built to any dimension and weight desired, with high or low comb, cheek piece, pistol grip of any shape, horn forearm tip, pistol grip cap, any type sling swivels and butt-plate. Please see Section X of this catalogue.

OTHER SMALL BORE TARGET RIFLES

In addition to the Winchester Model 52 Target Rifle, we are also prepared to furnish the following small bore target rifles at slightly lower prices. These will be found to be very satisfactory rifles.

STEVENS NO. 417-1 WALNUT HILL TARGET RIFLE



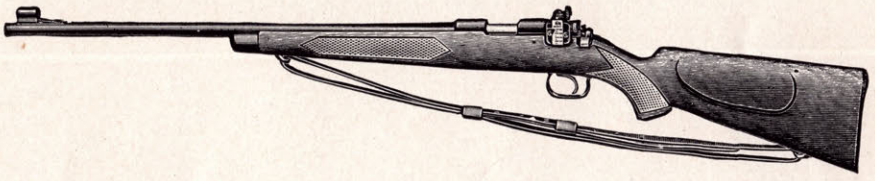
The Stevens No. 417-1 Walnut Hill Target Rifle is a single-shot arm for the .22 Long Rifle rim fire cartridge. It has a 28″ round, heavy barrel, and weighs 10½ to 11 pounds. The breech action is of the falling block under lever type, with solid frame and case-hardened receiver. The stock is of American walnut, oil finished, and of excellent shape and proportions. The rifle balances and holds remarkably well. The sights are the Lyman No. 17A front and Lyman No. 48L rear sight. The latter sight adjusts to quarter minutes. The sling strap as shown is included in the price of the rifle which is $45. (No. 417-2, same as above but Lyman No. 144 rear sight, $40.75; No. 417-3, same, but without front or rear sights, $35.85.) For this rifle we can furnish the same telescope sights, and the same alterations to comb if desired, as for the Winchester Model 52 rifle. The stock can also be checkered and given more pleasing lines.

SAVAGE MODEL 19 TARGET RIFLE

The Savage Model 19 Target Rifle is a bolt action repeating arm for the .22 Long Rifle rim fire cartridge. It has a detachable 5-shot magazine, and can be used either as a single shot or repeating rifle. The heavy barrel is 25″ long, and the sight radius 30½″. The weight is about 8 pounds. The front sight is a straight blade military type with flat top. The Savage Model 10 standard aperture rear sight as shown has click adjustments for elevation and windage reading to half minutes, and does not fold down. The barrel is drilled for telescope sight blocks of standard Lyman and Fecker type. The price of this Model 19 rifle is $33.50.

The Savage Model 19L Target Rifle is exactly like the preceding arm, but it is fitted with Lyman No. 48Y Micrometer rear sight adjusting to quarter minutes and with Lyman No. 17A front sight. It is priced at $45.75. For this rifle we can furnish the same telescope sights and the same alterations to the comb if desired as for the Winchester Model 52 rifle.

WINCHESTER MODEL 52 SPORTING RIFLE



This medium weight sporting rifle, chambered for .22 Long Rifle rim fire cartridges, has the same action and grade of barrel as is used on Model 52 target rifles, and the same care is taken in adjustment, inspection, and targeting. The Winchester Proof-steel barrel is shortened to the popular 24″ sporting length and so reduced in weight, with a beautifully curved taper and crowned muzzle. Stock, Winchester one-piece sporting style, with cheek rest, well-curved pistol grip, and checkering on grip and forestock. Weight about 7¼ pounds.

The stock is of fine quality, well-seasoned American black walnut, ideally proportioned, finely inletted for correct bedding of barrel and action, and accurately fitted. Dimensions, 13½ x 1-9/16 x 2½ inches; checkered steel butt-plate; hard rubber grip cap; finely moulded forestock tip. Sight equipment: Front, Lyman Gold Bead, mounted on ramp base made integral with barrel, which is not slotted, and with Winchester quick-detachable steel sight cover; rear, new Lyman 48F michometer windgauge receiver sight with same readings as for the Model 52 Target Rifle. Receiver top plain, no bridge mortice for rear sight mounting. Standard mount bases for telescope sight can be furnished when specified on order, at no extra charge. Detachable 5-shot box magazine, fully enclosed. One-inch dark russet leather sling-strap mounted on quick-detachable swivels, correctly placed. Special descriptive booklet upon request.

Because of its light weight this rifle cannot, as a rule, be held with quite the steadiness, or shot with quite the accuracy of the heavier Winchester Model 52 target rifles. But likewise, the target rifles would usually be considered too heavy, and too long barreled for convenient hunting. This rifle is outstanding as the best of all .22 caliber rim fire hunting and general sporting rifles. It also makes a fine target rifle for young persons or ladies for whom the regular target rifles are too heavy. It is a superb weapon in every respect, and can be fitted with the same sights, iron and telescope, as are other Winchester Model 52 rifles. The standard sight equipment above is very satisfactory for both hunting and general target shooting. The price of the above Winchester Model 52 Sporting Rifle as described is **$88.50.**

We have a special short Fecker 4-power small game scope with 10″ tube which mounts most excellently on this rifle, and makes a most attractive and satisfactory scope sight for it. The price of the scope properly mounted on the rifle is $42, plus mounting charge of $5.00.

Section III

Small Game and Varmint Rifles

Introduction by Colonel Townsend Whelen

THIS type of rifle, shooting small caliber high power cartridges of flat trajectory and fine accuracy, is intended for shooting small game and varmints, such as woodchucks, ground squirrels, prairie dogs, crows, hawks, foxes, and coyotes. As such game is usually encountered at rather long ranges and much of it has considerable vitality, rifles of good killing power, flat trajectory, and exceptional accuracy are required.

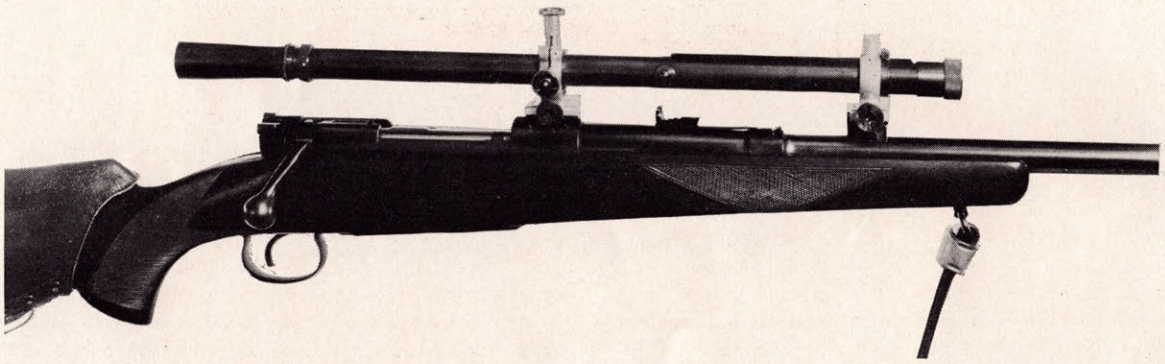
No matter how skilled the shooter, how accurate the rifle and cartridge, and how flat the trajectory, this type of rifle will be good for sure hits on game the size of woodchucks only to about 100 yards when the game is in perfectly clear view in the open, and the best of iron sights are used. This is because of the small, unavoidable errors of such sights when aiming at rather indistinct targets. Therefore, such rifles are almost always fitted with a small game telescope sight.

With a small game telescope sight on a good rifle of this type, the good shot will make sure hits on any small game the size of woodchucks up to about 200 yards, when he can fire from the steady prone and sitting positions with the gunsling, and even beyond this with certain rifles and scopes. Moreover, he will do this not only on game which is in plain view in the open, but also on game which is so hidden by grass, dark places, or contrasting background that it can be seen only through binoculars or with the scope. Therefore, a good small game hunting scope increases the efficiency of these rifles very considerably as compared with the best iron sights.

The best iron sights are always those, such as the Lyman No. 48, using the largest aperture only (discarding the cup disc which is only for bullseye target shooting) and a Lyman or other gold bead front sight. It is also absolutely essential that the rifle be fitted with a good shooting gunsling. But we strongly recommend that these rifles be fitted with a first rate small game telescope sight, and list below what we believe are the most satisfactory sights of this type.

Calibers: The .25-20 high speed cartridge has killing power sufficient for small game up to and including coyotes, and its sure hitting range on chucks using a scope is about 150 yards. The .22 Hornet has a sure hitting range with scope of 200 yards on chucks, and, at that range, it is a sure killer on game up to and including foxes, but not including coyotes. The .220 Swift has a sure hitting range on chucks of about 200 yards, with the ordinary small game scope, and about 275 to 300 yards with the 8 power scope with wide field of view. Its killing power is practically limited to coyotes and wolves. Whether it will kill deer in a sportsmanlike and humane manner cannot be told until it has been tried extensively on such game; it is a new cartridge that has not been used through a big game season. The .250-3000 and .257 Roberts calibers have the same sure hitting range as the .220 Swift, and these cartridges, when loaded with the 100 and 117 grain bullets, are excellent deer, sheep, goat, and caribou cartridges. We offer the following rifles in these calibers, all of which can be fitted with first rate iron hunting sights, small game hunting scopes, and gunslings. They are generally listed without these very necessary adjuncts, which can be supplied at their regular prices, since there is no charge for fitting sights, small game scopes, or slings when rifles are purchased from us.

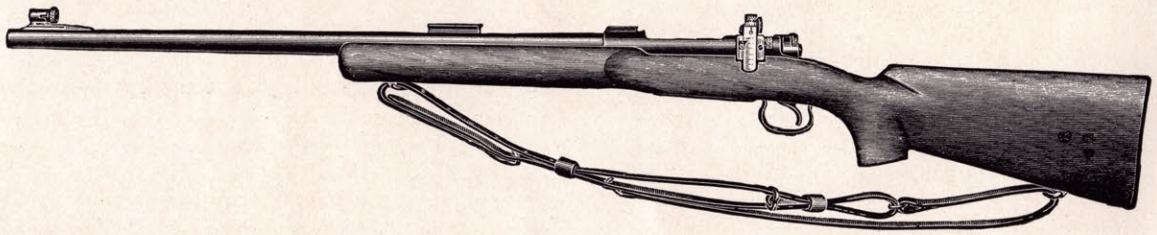
WINCHESTER MODEL 54 RIFLES



Winchester Model 54 Small Game and Varmint Rifle, Caliber .22 Hornet, .220 Swift, or 250-3000 or .257 Roberts. Properly fitted with Fecker small game scope with 18″ tube, and Jostam Monte Carlo cheek pad to raise the comb to scope height, and with shooting gunsling. A typical, properly equipped small game and varmint rifle.

THE standard Winchester Model 54 rifle, illustrated above, is made in .22 Hornet, .220 Swift, .250-3000 and .257 Roberts calibers (also in other calibers for which see section on "Big Game Rifles"), and weighs about 8 pounds 4 ounces. Barrels are 20″ or 24″ long except .220 Swift which is 26″ only. It is a bolt action repeating rifle of the highest type, and very best manufacture. Generally speaking, this is the best, most accurate, and durable of all such rifles, and we recommend it without reservation. We will gladly send on request descriptive folders on this rifle. In standard type as shown above, with plain open sights, and without gunsling, its price is $59.75 and equipped with the Lyman No. 48 receiver sight the price is $71.25. A leather shooting gunsling $2.50. The Fecker small game scope shown above sells for $37.50, and the Jostam cheek pad $3, all attached without charge. The same rifle can be obtained in Super Grade with selected walnut stock, handsomely checkered, cheek piece, black forearm tip, pistol grip cap, quick detachable swivels, shooting gunsling, front sight cover, and Lyman 48W rear sight, price $94.85; or, with open sporting rear sight, priced at $83.35.

WINCHESTER MODEL 54 HEAVY BARREL TARGET RIFLE



THE Winchester Model 54 Heavy Barrel Target Rifle shown above is made in the same calibers as the standard rifle, and weighs 10½ pounds. It has a heavy 24″ barrel (26″ in .220 Swift), a heavy target stock, and is regularly fitted with Lyman No. 48 WJ receiver sight, Lyman No. 17 front sight, bases for Fecker or Lyman scopes, and sling swivels for the 1¼″ gunsling. As described and illustrated its price is $100.50. It can be fitted with any of the small game scopes described below. Its advantages are that, having a heavier barrel, it is a trifle more accurate than the standard rifle, and, being heavier in weight, it holds a little steadier, and its stock without alteration, is excellent for scope use. It is, of course, a heavy rifle, and some sportsmen will not care to carry it all day over rough country. Others will appreciate its slightly increased reliability of shooting over the lighter standard model 54 rifle. It may be said that either weapon, with a first rate small game hunting scope, makes a splendid small game and varmint rifle.

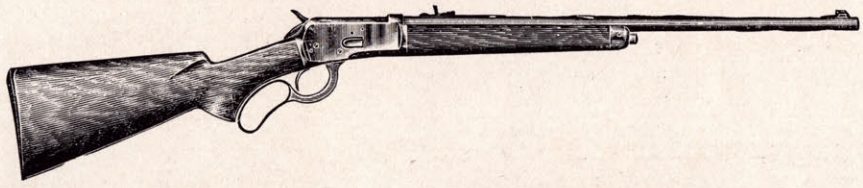
REMINGTON MODEL 30-S RIFLE

THE standard Remington Model 30-S rifle, illustrated above, is made in .25 Rem., and .257 Roberts calibers (also in other calibers, for which see section on "Big Game Rifles") and weighs about 8 pounds 14 ounces. It is a bolt action repeating rifle of the highest type and very best manufacture, and equals the Winchester Model 54 rifle in accuracy and durability; we recommend it without reservation. It is regularly fitted with Lyman No. 48 receiver sight as shown, and its price is $66.50, or, it can be obtained with open sights only at $55. It can be fitted with any of the small game scopes listed below, and when so fitted its high comb stock does not require a cheek pad. The sling eyes are for quick detachable swivels which cost $2.50. A "National" leather shooting gunsling 7/8" wide costs $2.50 additional. The .25 Rem. cartridge is only slightly less powerful than the .257 Roberts, and is suitable for all game up to and including deer.

SAVAGE MODEL 23 D SPORTER RIFLE

THE Savage Model 23 D Sporter Rifle, caliber .22 Hornet; the Savage Model 23 B Sporter Rifle, caliber .25-20; and the Model 23 C rifle, caliber .32-20, illustrated above are bolt action repeating rifles weighing about 6½ pounds. In standard grade as shown above, with open sights and without gunsling, the Model 23 D is priced at $34.25, and the Model 23 B and C at $29.95. Fitting with Savage 7/8" No. 3A sling loops and screw studs costs $.50, and the Savage No. 3 Government type gunsling, 7/8" wide costs $1.90. Fitting with our own finer "National" gunsling costs $2.50. These rifles can be fitted with any of the small game telescope sights listed below.

WINCHESTER MODEL 65



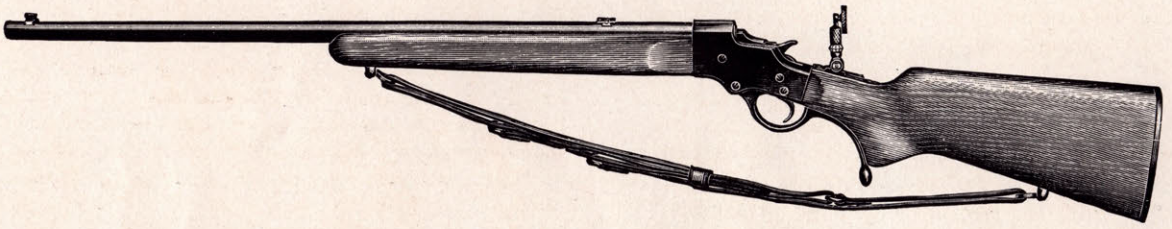
THIS lever action, 8-shot repeating rifle, is an easy-to-carry, fast-handling, reliable rifle, styled for quick, accurate shooting. In .32 caliber it is popular for varmints treed by dogs; in .25-20 caliber it is very satisfactory for woodchucks or marmots, foxes, coyotes, bobcats, turkeys, sometimes geese—according to situation and game laws. A real light-weight, with new specially designed N. R. A. type shotgun stock with pistol grip, and gracefully tapered 22-inch round barrel, having ramp front sight base. Stock and forearm of walnut. A development of the well-known Winchester Model 92 rifle. Lighter trigger pull; new sights—Lyman Gold Bead 31W front; Winchester 22H Rocky Mountain adjustable rear. Half-magazine only—7 shots—one in the chamber makes this an 8 shot repeater; weight about 6½ pounds; solid frame only. Price of rifle $39.75.

This is an excellent short and medium range small game and varmint rifle, fast, and particularly adapted to horseback use. Not suitable for telescope sights. We strongly recommend thatt this rifle be fitted with Lyman No. 56 receiver sight and Lyman gold bead front sight of proper height, price $8 extra. Such a sight is absolutely necessary to adjust for both low velocity and high speed loads.

SQUIRREL AND GROUSE RIFLES

ALL of the above center fire high power rifles use factory cartridges which are so powerful that they are more destructive than is desirable for squirrels, grouse, ducks, and the smaller fur bearing animals, destroying meat and skins. But, by hand loading his cartridges with reduced loads, and using a light, full jacketed bullet, the small game hunter can produce loads for these rifles which will be entirely satisfactory for such light game, killing neatly and without mangling. See particularly the following Stevens No. 417½ rifle in .25 caliber.

STEVENS NO. 417½ WALNUT HILL SPORTING RIFLE



FOR those who do not care to reload their light cartridges and desire a rifle entirely for this class of game, we would invite attention to the above Stevens No. 417½ Walnut Hill Sporting Rifle, which is made for the .22 Long Rifle and .25 Stevens Rim Fire cartridges. This rifle is a single shot, falling block arm with under lever, has a 28″ medium weight round barrel, and weighs about 8 pounds. It is regularly fitted with Lyman No. 144 tang rear sight with windage adjustment and Lyman gold bead front sight, which are excellent iron hunting sights. The barrel is drilled and tapped properly for the Lyman and Fecker scope blocks, and any of the small game scopes listed below can be fitted. The stock is excellent, and the shooting gunsling shown is included in the price which is $35.85.

The .25 Stevens Rim Fire cartridge is excellent for such light game, kills it neatly and without any undue mutilation, and is as accurate as any of the .22 Long Rifle cartridges that are suitable for game shooting. This Stevens rifle in this caliber is the one best squirrel rifle with which we are familiar.

SMALL GAME TELESCOPE SIGHTS

Small game and varmints usually present very small targets to aim at and hit. These targets are often fully as small in their vital parts as the bullseyes of the small bore targets, and are not nearly as distinct to aim at. Also, they are at distances that are never known exactly but must be estimated. To hit at estimated long ranges, one must have sight with which he can clearly and distinctly hold above the game to allow for the drop of the bullet at such long distance. The scope and rifle must always be kept in very precise adjustment so that the bullet will strike close to where it is aimed. Therefore, small game scopes must be much of the same general type as those which are used for small bore target shooting, and should have the same fine adjustments for elevation and windage. They should have a more universal focus because they are to be used at greatly varying distances, and a much larger field of view so that, when the hunter throws his rifle to his shoulder to aim, the game will surely be embraced in the field of view, and he will not be slowed up by having to poke around to get it into the field of view. But these scopes should not be so low in power that the definition will be poor. For example, 3 power is just a little too low for a small game scope, because so often one will pick up small game with field glasses which is almost hidden in grass or against dark backgrounds, and will then not be able to see it through a 3 power scope. But he can almost always see to aim clearly and distinctly at anything he can find with a pair of binoculars when he uses a good 4 power scope.

The length of the tube of the telescope is also important. With a length of the tube of 18″, we can space the bases 7.2″ apart and still adjust the eyepiece to the correct distance in front of the eye in normal firing positions. Also, this 7.2″ separation of bases gives the standard adjusting value on the rear mounting, that is ½ inch to each graduation and ¼ inch to each click at 100 yards. If, however, a shorter tube were used, then the front base would have to be located further to the rear to place the eyepiece close enough to the eye, and we would have a shorter distance between our bases, and would no longer have the convenient minute of angle sight adjustment values.

We must also consider the type of reticule. Thin cross hair reticules permit of better holding over the game to allow for the drop of the bullet, and they are entirely satisfactory for open country where the game stands out clearly defined against short or dead grass and where the light is good. But in dark localities, or in deep woods, or where there is a lot of long grass or brush, these thin cross hairs cannot be seen, or are continually being confused with grass, brush, or tree limbs, which often makes the catching of aim impossible or extremely slow. The flat top post reticule, which on Fecker scopes subtends 4″ at 100 yards, can be seen clearly and caught quickly in any decent light and against any background. Theoretically one cannot hold over with it as well as one can with cross hairs, but practically none of the center fire cartridges listed (except the .25-20 which is a 150 yard cartridge) has a drop of more than 4″ at 200 yards, and it is just as easy to hold over for a 4″ drop with the flat top post reticule as with a cross hair reticule. Therefore, as the limit of really accurate aim on game the size of woodchucks is limited to about 200 yards with a 4 power scope, we think that all scopes of this or lower power will be more practical instruments for small game shooting if fitted with flat top post reticules.

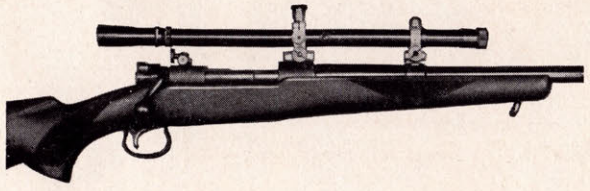
While the 4 power scope is limited to about 200 yards for effective aim on small game, we have two rifles—the .220 Swift and the .257 Roberts—which, by reason of their combination of fine accuracy and flat trajectory, would have a sure hitting range of almost 300 yards on woodchucks, could we aim them effectively at such a distance. But to aim at over 200 yards we need more than 4 power magnification and also a cross hair reticule to hold over for the greatly increased

drop of bullet at these long distances. There is one scope—the 8 power scope with wide field and cross hair reticule—which gives us these needed characteristics and also has a large enough field of view to be suitable for game shooting. This scope is a superb long range varmint scope, but it is not as good an all around small game scope as the 4 power with flat top post reticule, because, in addition to its reticule being unsatisfactory in dark places and among much brush, the 8 power does not have a universal focus, and, if we focus it for 150 yards, while it will be in good enough focus from 100 yards to infinity, it will be out of focus, and if much used, will cause eyestrain at distances around 35 to 75 yards. Still, for a country where long shots are the rule and for the .220 Swift and .257 Roberts cartridges, we think that these 8 power scopes are most desirable.

Typical big game hunting scopes and mounts are sometimes seen on small game and varmint rifles. We believe that this is always a mistake. Not only do these scopes fail to give the desired definition (resolving power) on small game, but they can be adjusted only by the trial and error method after much experimental firing every time an adjustment is attempted. These scopes are thus seldom in adjustment sufficiently accurate to hit the head of a chuck just appearing out of its hole at 150 yards, or other similarly difficult targets.

The following are the small game telescope sights that we particularly recommend.

FECKER SMALL GAME TELESCOPE SIGHTS



These scopes are made in 2½, 3, and 4 power, with tubes 10, 12, 14, 16 or 18 inches long, with flat top post with and without horizontal wire, or cross hair reticule as desired, and with Fecker Precision ¼ minute click mountings, or Fecker Standard plain micrometer mountings. We particularly recommend the 4 power scope. Also, in order to have the desirable 7.2 inches between mountings, with most bolt action rifles the tube must be 18 inches long. There is no difference in the optics or field of view with the different lengths. Field of view at 100 yards is as follows: 2½ power 38 feet, 3 power 26 feet, 4 power 21 feet. In ordering, state power, length of tube, style of mounting, make and model of rifle, and where bases are to be located.

Fecker Small Game Scope in lengths of 16 or 18 inches, in powers 2¼, 3, and 4.

Price with ¼ minute click mounts, bases, and caps **$37.50**

Price with plain micrometer mounts, bases and caps **30.00**

Fecker Small Game Scope in lengths 10, 12, or 14 inches, in powers 2¼, 3 or 4.

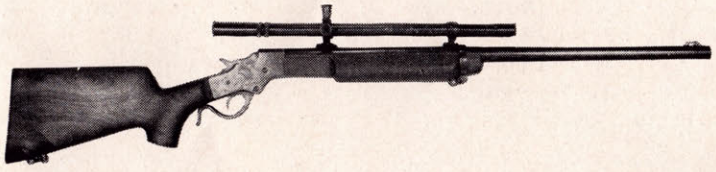
Price with ¼ minute click mounts, bases and caps **$42.00**

Price with plain micrometer mounts, bases and caps **34.50**

Extra hardened steel bases and screws (Specify rifle and location of bases) set of two..... **1.50**

Leather carrying case, state length of tube.... **5.00**

UNERTL SMALL GAME SCOPE



Furnished in 3, 4, or 6 power, all with 18 inch tube. Medium cross-hair, flat top post, blunted post, or pointed post reticules may be obtained. Unless otherwise specified the scope is furnished with cross-hair reticule. Field of view at 100 yards—28 feet in 3 power, 25 feet in 4 power, and 17 feet in 6 power. Furnished with Lyman double micrometer ¼ minute click mountings only. State power and reticule in ordering, also make, and model of rifle and where blocks are to be located.

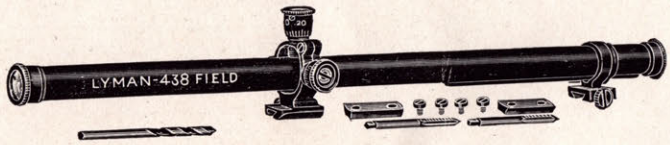
Price, 3, 4, or 6 power, any reticule, with mounts **$32.50**

Price, without mounts..... **20.00**

EIGHT POWER SMALL GAME SCOPES

On rifles using cartridges like the .220 Swift and .257 Roberts which have very flat trajectory and fine accuracy, the small game hunter will obtain best results at very long ranges with 8 power scopes having wide field of view and cross hair reticules, like the 8 power Lyman Targetspot, 8 power Fecker with 1⅛ inch objective, and 8 power Unertl Target Scopes. These scopes will be found listed and described in Section II of this catalog.

LYMAN NO. 438 FIELD TELESCOPE SIGHT



Lyman No. 438 Field Telescope Sight, 3 power, length 17″ (long enough for 7.2″ between bases) with cross hair or flat top post reticule, Lyman micrometer mounts with ¼ minute clicks, field of view 23 feet at 100 yards..... **$27.50**

Same scope can be obtained with standard mounts which we do not recommend..... **20.00**

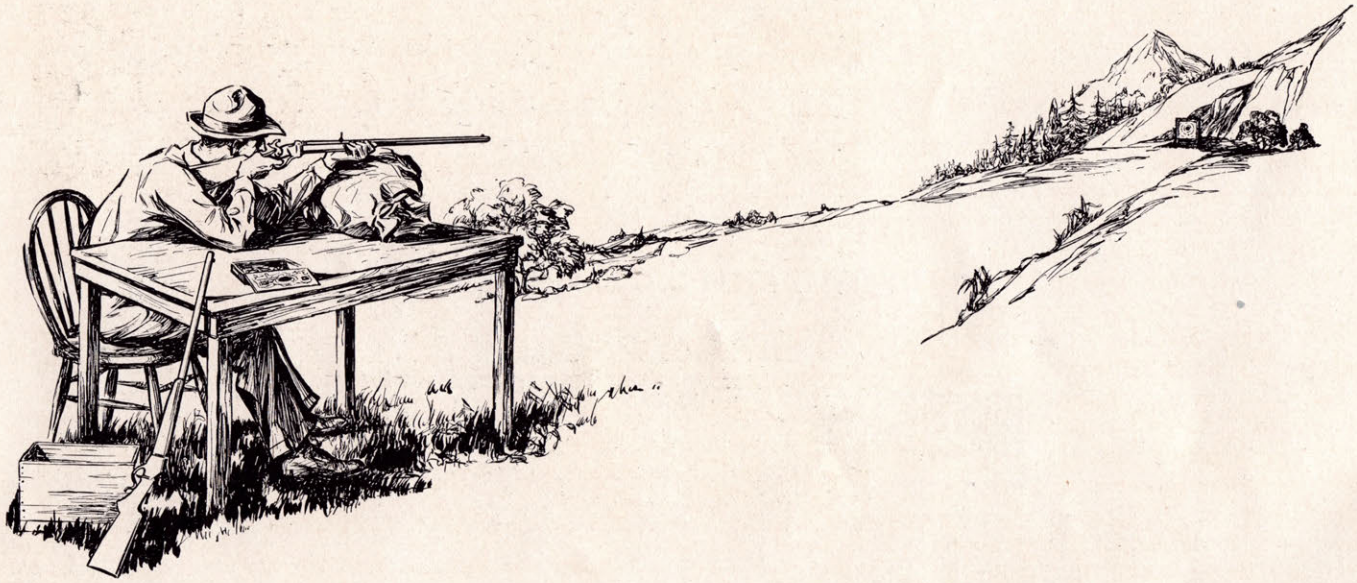
Other Pertaining Equipment

In addition to the rifle itself, and its telescope sight, the small game and varmint hunter requires other equipment as listed below, for which we refer you to the proper sections in this catalogue:

Gunsling
Binoculars
Score Book
Shooting Coat
Cleaning Rods
Cleaning Materials
Gun Case or Cover

Ammunition

We do not handle ammunition, but refer you to your local dealer, who, if he does not have the size and make desired, can procure the same for you on special order with little delay.



Section IV

Big Game Rifles

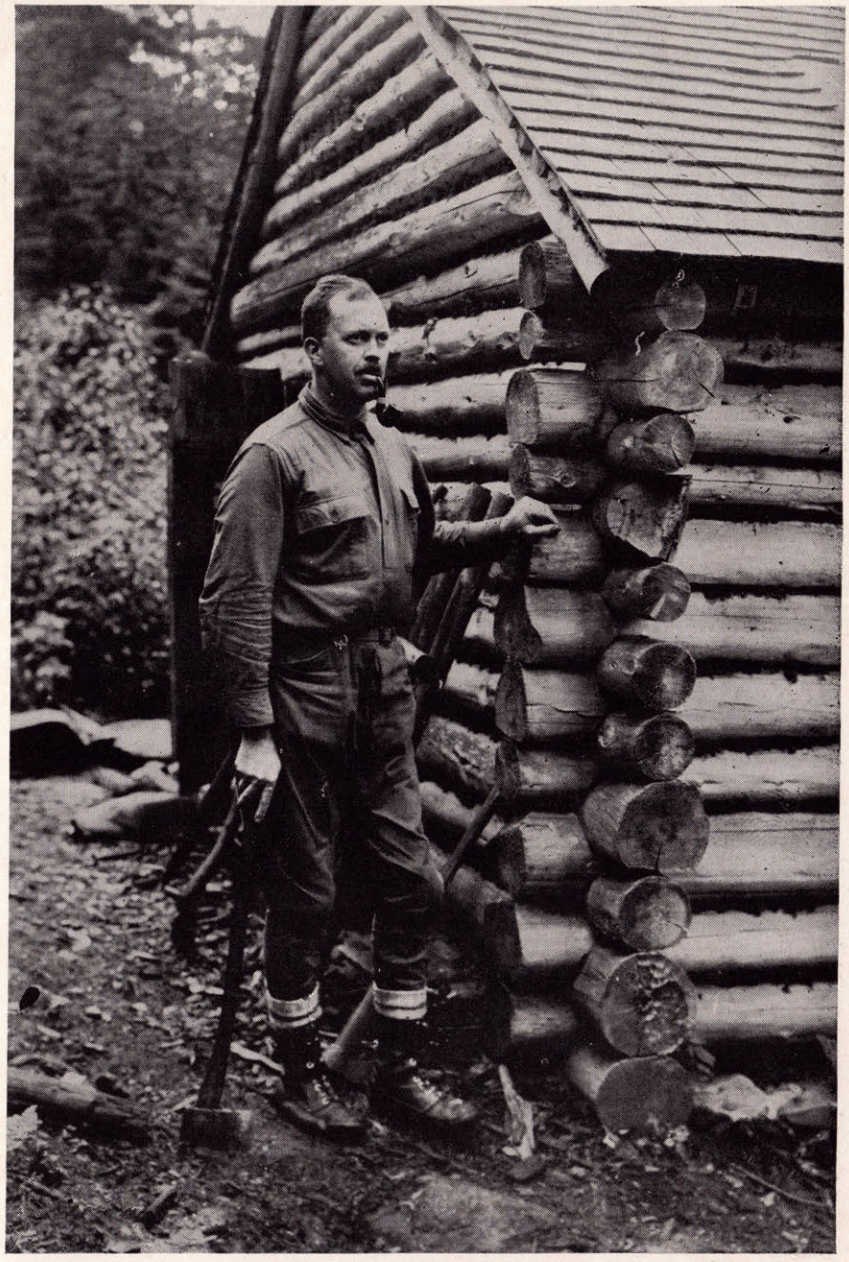
Introduction by Colonel Townsend Whelen

THE original rifles made in this country were intended for all-around purposes. Our forefathers used their Kentucky rifles for deer, bear, turkeys, coons, and squirrels. These rifles shot a round lead bullet which did not ruin the small game for the pot as do the bullets from modern high velocity cartridges, because they penetrated more or less cleanly. About 1820 to 1830 a demand arose for more powerful rifles for use on our larger western game—buffalo, elk, and grizzly bear. Then it was that the true big game rifle was born and specialization in rifle design and manufacture started. These big game rifles were made for heavy conical bullets of larger diameter, and were so powerful that they were unsuitable for small game.

As our game becomes educated, wilder, and more difficult to approach, there has been a constant demand for greater range and killing power in our hunting rifles. To a certain extent, this is a sensible demand, but we must take into consideration the weight of the weapon, the recoil, and, above all, the accuracy. If the rifle has so much recoil that it is unpleasant to shoot, or if it is not accurate, we cannot reliably hit game in vital parts with it at any considerable range. Most of our modern rifles fulfill the requirements for accuracy when they use the more accurate types of cartridges.

The main points to look to in choosing a big game rifle are the cartridge and the breech action. Secondary points are the sights and the fit of the stock.

Success, sportsmanship, humanity, and conservation of game all demand that we use a rifle taking a cartridge that has adequate killing power for the game we intend to hunt. The following table, arranged in order of killing power beginning with the lowest, lists those cartridges which long experience in American game fields have shown to be satisfactory for big game shooting. After each cartridge will be found two columns. The first indicates the range in yards to which, generally speaking, the hunter rifleman can be sure of placing his shots in the vital part of big game animals when he is able to fire in the steady prone or sitting posi-



Colonel Townsend Whelen

tions with the gunsling, using the best rifles made for that cartridge, and the rifle fitted with the best Lyman type iron hunting sights. The second column gives the sure hitting range for rifles fitted with the best big game hunting telescope sights which have been properly mounted on rifles for which they are suitable. Usually the telescope sight about doubles the accuracy of aim, and almost doubles the sure hitting range. Where the figures in these two columns show the same or nearly the same range, it indicates that the cartridge is of such killing power that it cannot be relied on to kill surely at a greater distance than the maximum distance given.

TABLE OF KILLING POWER AND SURE HITTING RANGE

1. Cartridges suitable for deer, sheep, goats, caribou and small bear.

Cartridge	*Wt. of Bullet Grains*	*Hitting Range Lyman Sights Yards*	*Hitting Range Scope Sight Yards*
.25-35 W. C. F.	117	200	200
.25 Rem.	117	200	225
.30-30 W. C. F.	165 to 170	150	
.30 Rem.	165	150	
.32 Win. Special	170	150	
.32 Rem.	165	150	
.303 Savage	190	175	225
.250-3000	100	200	300
6.5 mm Mannlicher	129	175	300
7 mm Mauser	139	200	300
.257 Roberts	117	200	325
.348 W. C. F.	150	175	
.30-06 3,000 f.s.	150	200	325
.270 W. C. F.	130	200	350

2. Cartridges suitable for elk, moose, and large bear, as well as for deer, sheep, goat, caribou, and small bear.

Cartridge	*Wt. of Bullet Grains*	*Hitting Range Lyman Sights Yards*	*Hitting Range Scope Sight Yards*
.35 Rem.	200	150	
.30-40 Krag	180	200	275
.300 Savage	150	175	250
.300 Savage	180	200	300
6.5 mm Mannlicher	160	200	300
.30-40 Krag	220	200	275
7 mm Mauser	175	200	300
.348 W. C. F.	200	175	
.30-06 3,000 f.s.	150	200	325
.30-06	180	200	350
.30-06	220	200	300
.35 Whelen	250	200	275
300 Magnum	180 to 220	200	350
.375 Magnum	275 to 300	200	

Note: The above is a conservative table. Where game is killed with lighter cartridges or at longer ranges, luck has entered more or less. We have tried to eliminate luck and give a reliable table. Note that this table is only for good marksmen, using the best rifles and best sights. It will not apply for poor marksmen, the cheaper rifles, or with plain open sights.

ACTIONS

It is highly desirable that a hunter be able to operate his rifle surely, quickly, and sub-consciously without jamming; that is, without thinking of it, even under the excitement of game shooting. Such operation is learned by practicing rapid fire exercises in one's home without ammunition.

With lever or pump action rifles such operation is easily learned. The beginner will readily learn effective operation by five to ten periods of 15 minutes each of rapid fire exercises Such actions are slightly faster than bolt actions. On the other hand, lever and pump action rifles are not quite as accurate as the best bolt action rifles, and they do not, as a rule, take cartridges which have such a long sustained killing power for long range shooting. These rifles have ample accuracy for 150 yard shooting. For deer and other animals which are found in forest country where the ranges are always rather short, lever and pump action rifles are usually the best rifles, because, should the first shot fail to kill the animal, other shots can be delivered very quickly before the animal gets out of sight. Lever action rifles are best for the average sportsman who seldom has the time or opportunity to train himself into quick and efficient operation of the bolt action rifle. Lever action rifles (except Savage Model 99 RS) are not suitable for scopes, since the scope tube must be mounted directly above the barrel and receiver and would interfere with the ejection of the fired cartridge cases.

With the best bolt action rifles it takes roughly from 15 to 20 periods of rapid fire exercises to make operation quick, certain, and sub-conscious. When this preliminary training has been done, while the bolt action is not quite as fast as the lever or pump, yet it is plenty fast enough for game shooting under any conditions. Because of its superior accuracy and because it uses cartridges of flatter trajectory, it is the superior long range arm. Therefore, it usually is the choice of the trained hunter rifleman who has the skill necessary to operate it effectively and to use it at long range. This same trained hunter rifleman, however, might, and frequently, does, use the lever action arm for deer shooting in forest country.

Very generally speaking, therefore, it may be said that the lever action rifle with Lyman sights is best for deer shooting or any other shooting in thick timber and for the ordinary sportsman. The pump action arm can be recommended to the ordinary sportsman who has become familiar with this action from long use of the pump shotgun. The bolt action arm is the weapon of the trained rifleman, the best all around arm for all kinds of country, and the best long range arm—it being understood that only a trained rifleman has any chance of making consistent hits at long ranges with any rifle. Usually the bolt action rifle is fitted with a big game hunting telescope sight, which almost doubles its sure hitting range in the hands of a good shot. The weapon of the trained hunter rifleman who hunts one time in the open country of the West, and again in the thicker forests of the Northeast, and who takes a delight in sure kills with a single well placed shot is the high grade, scope sighted bolt action rifle.

WINCHESTER MODEL 54 RIFLE

Rifle with standard barrel and Lyman No. 48W Receiver Sight.

Winchester Model 54 Bolt Action Repeating Rifle, Standard Type. Calibers .22 Hornet, .220 Swift, .250-3000, .257 Roberts, .270 W.C.F., 7 mm Mauser, .30-06 Govt., 7.65 mm Mauser, and 9 mm Mauser. Barrels 24″ long except .220 Swift which is 26″. It can also be obtained with 20″ barrel at the same price, except for the .220 Swift. Weight about 8¼ pounds; modern pistol grip stock of checkered walnut as shown, 1″ sling swivels, price **$71.25**

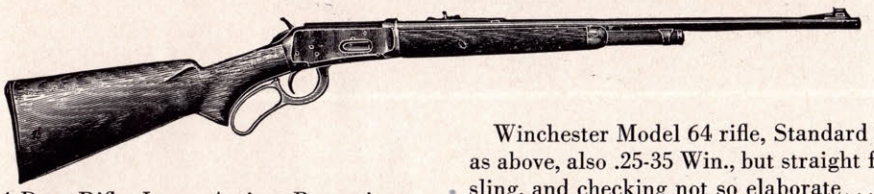
Same rifle as above but with plain open rear sight instead of Lyman No. 48W rear sight, price **$59.75**

Super Grade, same as above, but with selected stock, handsomely checkered, with cheek piece, horn forearm tip, pistol grip cap, quick detachable swivels, shooting gunsling, front sight cover, and open sporting rear sight. Price **$83.35**

Super Grade, as above, but with Lyman No. 48W rear sight. Price **$94.85**

Note: Lyman No. 48W rear sight is best; or the open sighted rifles can be fitted with Redfield or Vaver receiver sights at the price of those sights. The Winchester 1″ NRA gunsling is $2.00 extra. Excellent telescope sights can be fitted. High comb as on Winchester Model 52 rifle can also be fitted. See Gunsmithing section.

WINCHESTER MODEL 64 DEER RIFLE
CALIBERS .30 (.30-30) W.C.F. AND .32 WIN. SPECIAL



Winchester Model 64 Deer Rifle, Lever Action, Repeating, solid frame, caliber .30 (.30-30) W.C.F. and .32 Winchester Special. 20″ or 24″ barrel; modern pistol grip stock and beavertail forend; checkered 1″ NRA shooting gunsling; open sights; price **$59.20**

Winchester Model 64 rifle, Standard Model. Same calibers as above, also .25-35 Win., but straight forend and no sling, and checking not so elaborate **$44.85**

Note: We strongly advise that both of the above rifles be fitted with Lyman No. 56 rear sight and with a blank piece in rear slot in barrel, price $6.10 extra. This rifle is not suitable for telescope sights.

WINCHESTER MODEL 54 TARGET MODEL RIFLE WITH HEAVY BARREL

The Winchester Model 54 Target Model Rifle has a heavy 24″ barrel (.220 Swift 26″), weight 10½ pounds, special target stock (specially good for scope), Lyman 48WJ receiver sight, bases for Fecker and Lyman scopes, 1¼″ Govt. type gunsling; made in .22 Hornet, .220 Swift, .250-3000, .257 Roberts, .270 W.C.F., .30-06 Govt., and 7 mm Mauser price **$100.50**

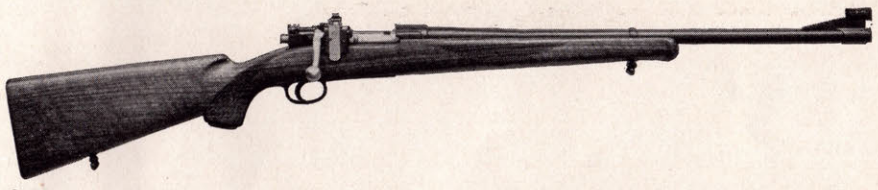
Note: This is the best combination long range, target and game rifle for a telescope sight that is made, and it is not too heavy for hunting in the hands of a husky man.

National Match Rifle, same target stock as above, standard weight barrel, Lyman 48WJ rear sight and scope blocks, .30-06 caliber only; price **$93.00**

Snipers Match Rifle, same as heavy target model above, but with extra heavy 26″ barrel for .30-06 cartridge only. Weight 12¾ pounds; price **$111.00**

Carbine, 20″ barrel, carbine stock, open sights, .250-3000, .270 Win., 7 mm, .30-06, 7.65 mm, and 9 mm only; price **$55.30**

SEDGLEY SPRINGFIELD SPORTER RIFLE



The Sedgley Springfield Sporter Rifles are partly custom made arms with Springfield breech action, Winchester proof steel barrels, and modern stocks. They are full equipped with Lyman 48 rear and gold bead front sights, and sling swivels for 1″ sling. Made in the following calibers: .270 W.C.F., .250-3000, .22 Hornet, .257 Roberts, .220 Swift, and .22-4000; price..... **$82.00**

Also made in the following calibers: .25-35 W.C.F., 7 mm Mauser, and .30-06; price..... **$71.00**

The Sedgley Springfield Sporter Rifles can also be had in DeLuxe, Mannlicker, Short Action, and Left-Hand Action; also in Magnum Type for the .300 Magnum, .375 Magnum, .404 Jeffery, and .505 Gibbs cartridges. Details and prices on request.

Note: Sedgley Springfield Sporting Rifles have been used by many members of the National Rifle Association for a number of years, and with uniform satisfaction. We fully guarantee them. They are suitable for use with telescope sights.

REMINGTON MODEL 30S RIFLE

Remington Model 30S Bolt Action Repeating Rifle. Calibers .25 Rem., .257 Roberts, 7 mm Mauser, and .30-06 Govt.; 24″ barrel; weight about 8¾ pounds; modern pistol grip and forend, checkered; Lyman No. 48 rear sight, screw eyes for quick detachable swivels; price.... **$66.50**

With Redfield No. 102R receiver sight..... **59.50**
With open sights only..... **55.00**

Note: An excellent rifle for scope as bolt handle and safety do not interfere with low mounting, and comb of stock is high.

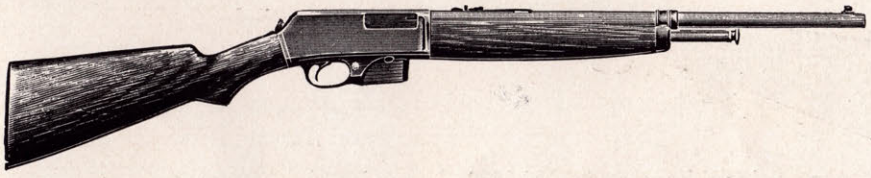
SPRINGFIELD SPORTING RIFLES WITH NOSKE SCOPE

A Remodeled Springfield Sporting Rifle.

The Springfield Model 1903 Rifle, Caliber .30-06 is sold only to members of the National Rifle Association. Members can purchase only military type rifles, sporting being no longer manufactured. In addition a member may purchase the necessary parts of this rifle for remodeling into sporting type for approximately $40. Prices of parts and rifles change frequently, and members should write to the Director of Civilian Marksmanship, War Department, Washington, D. C., for the latest price list. If desired, we can assist our customers in becoming members of the NRA.

Our gunshop can take one of these rifles, or the necessary parts and remodel them into a most excellent and attractive sporting rifle, with Lyman sights, pistol grip stock of selected walnut, checkered, with horn forearm tip, pistol grip cap, and checked steel butt-plate, and with sling swivels and sling for $100 and up, depending on specifications. See also Section X. Such a rifle will make the finest appearing sporting rifle for the .03-06 cartridge that it is possible to obtain, and is a very desirable and popular arm, having made an enviable reputation in the game fields of the world.

WINCHESTER MODEL 10 SELF LOADING RIFLE



Self-Loading 5-Shot Rifle. The one self-loader with a long record of clean one-shot kills on American game—the most powerful gun in its class. Shoots the .401 Winchester Self Loading cartridge. Fires five heavy loads—striking energy over a ton each—as fast as you pull and release the trigger. Empty four-shot magazine replaced in an instant. We recommend it for woods use at short and medium ranges only, where a knockout shot is desired. Same design throughout as the Winchester Model 07, built stronger to handle its more powerful ammunition. Stationary 20″ barrel with sights directly attached. No barrel movement, no projecting moving parts. Shotgun style walnut stock with hard rubber butt plate and pistol grip. Deep walnut fore arm, oval shape. Sporting blade front sight, adjustable rear. Box magazine, holds four cartridges; one in chamber makes this a five-shot rifle. Spare magazine, to slip in instantly, is extra. Weight approximately 8 pounds. Takedown only. Price.... **$70.30**

Special Note: Automatic high power rifles, takedown high power rifles, and any rifle which ejects its fired cases from the top of the receiver, are not adapted for use with telescope sights. The peculiar recoil of high power automatic rifles soon pounds the scope and its mounting out of adjustment. A scope must be mounted directly above the barrel and receiver, and where the fired cases are ejected from the top of the receiver the scope tube would prevent such ejection.

SAVAGE MODEL 99 HI-POWER REPEATING LEVER ACTION RIFLES

In addition to the Savage Model 99 RS rifle previously described, we are prepared to furnish the following older models of this well known rifle. Made in .22 Hi-power, .250-3000, .30-30, .303 Savage, and .300 Savage calibers unless otherwise stated.

Model 99-H. Carbine, solid frome, 20″ barrel, .250-3000, .30-30, and .303 calibers only. Weight 6¾ pounds **$42.00**

Model 99-EG. Solid frame, pistol grip, 24″ barrel **43.50**

Model 99-G. Takedown, pistol grip, 24″ barrel **52.00**

Model 99-T. Solid frame, featherweight model, pistol grip, 20″ barrel, weight 7 pounds (illustrated above) **48.50**

Model 99-F. Takedown, straight grip, shotgun butt, 22″ barrel, weight 7½ pounds..... **48.50**

Model 99-A. Solid frame, straight grip, 24″ barrel, rifle butt plate, weight 7 pounds, for .303, .30-30, and .300 cartridges only..... **43.50**

Model 99-K. Takedown, same as Model 99-G but fancy walnut, checkering and engraving, and Lyman rear peep sight..... **75.00**

Model 99-R. Solid frame, same as Model 99-RS rifle but plain open sights, and not specially selected for fine accuracy..... **50.00**

Note: Only solid frame rifles are suitable for use with telescope sights. We strongly recommend the Model 99-RS rifle, previously described in the front of this section. Not only is it specially selected for accuracy, but it has a solid frame, and a stock specially suited to fine marksmanship or for use with telescopic sights.

SAVAGE HI-POWER SUPER-SPORTER RIFLES

Bolt action, solid frame, repeating rifle; made in .250-3000 and .30-30 calibers with 22″ barrel, and in .30-06 and .300 Savage calibers in 24″ barrel; detachable magazine of 3 shot capacity, which with one shot in chamber, makes this a 4 shot weapon; walnut stock with pistol grip.

Model 40. Open sights..... **$40.00**
Model 45. With Lyman No. 40 peep sight, and grip and forend checkered..... **48.90**

BIG GAME HUNTING TELESCOPE SIGHTS

The usual target and small game telescope sights are not very satisfactory for big game hunting. The field of view is too narrow to catch aim quickly and to hold moving game in view. The scope tube slides through its mountings and has to be drawn back to firing position by hand after each shot, delaying rapid shooting, and the mountings and tubes are rather fragile to stand the hard knocks of the wilderness.

The typical and efficient big game hunting telescope sight has a very wide field of view, at least 30 feet at 100 yards. The eye relief is long so there is no danger of the eyepiece striking the eye on the recoil of heavily charged rifles. The tube is short and sturdy and the instrument requires no more care than a pair of binoculars.

The mountings require special consideration. They must hold the scope properly aligned, must be sturdy enough to stand the blow of heavy recoil, and must permit the scope being taken off the rifle and replaced in a few seconds in perfect alignment. They must also hold the scope in the proper position on the rifle, and if the scope has no adjustment for windage the mount must permit of such adjustment. For these reasons mounts must be made with precision and of the best materials, and they often cost as much as the telescope itself. A telescope sight is useless without a suitable mounting.

Different makes of rifles vary so much in construction and dimensions that not every scope and mounting is suitable for every rifle. Certain scopes and mounts would be a bad misfit on certain rifles. When a shooter throws his rifle up and aims naturally, he should instantly see the full field of view through the scope without having to assume an awkward and unsteady position. If he has to crane his neck way forward or back to see through the scope or if the line of aim through the scope is so high above the comb of the stock that he cannot snuggle his cheek down on the comb when aiming, then he cannot aim or hold steadily, or shoot rapidly with accuracy. In the past most scopes have been mounted so high above the barrel and comb that no rifleman could shoot as accurately with them as with properly located iron sights.

Accordingly, we are recommending below only those combinations of scope, mount, and rifle which in our opinion will prove reliable, sturdy, and satisfactory for big game hunting. Scopes cannot be mounted on rifles which eject their fired cases from the top of the action. Automatic high power rifles pound their scopes and mountings to pieces in short order. Scopes are not suitable for rifles of heavier caliber than .30-06 due to recoil. The combination of a scope on a takedown rifle will not be accurate. No scope will make up for deficiency in skill in marksmanship, but they will frequently aid defective vision or old eyes. A good scope and mount can be used under every condition where any iron sights can be used effectively, and under many conditions of light, target, and background where iron sights would be entirely ineffective.

For standard, *unaltered* Springfield Model 1903, Winchester Model 54, and Mauser rifles, we recommend only the Noske 2½ power Fieldscope No. 1, Type A, or No. 2, Type B, mounted on the rifle with the Noske No. 2 double clamp mounting or the Niedner mounting without windage feature. Due to the high upturn of the bolt handle, and the location of the safety lock on these rifles, these are the only scopes that can be located low enough so that the shooter can aim, hold, and execute rapid fire with the greatest efficiency. The slide of the No. 48 rear sight must be removed when the scope is placed on the rifle, but can be replaced in perfect adjustment in a few seconds when the scope is removed.

For the above rifles when the bolt handles have been turned down, and when they have been fitted with trigger guard or side safeties, we recommend the 2¼ power Zeiss Zielklein scope with No. 6 flat top post reticule, or the 2¾ power Hensoldt Zielklein scope with cross hair reticule, or the Unertl 3 power Big Game Hunting Scope with flat top post reticule, mounted on the rifle with the special, low Niedner, Griffin & Howe, or Redfield mountings. These three scopes have very large exit pupils, great latitude of eye relief, are optically very superior, and are particularly adapted to those variations in firing positions which the hunter often has to assume. Aim can be caught with them quicker than with any other scope. But they can be given the desirable low mounting on these three makes of rifles only when the bolt handle has been turned down, and a new safety lock fitted. As this catalogue goes to press, a new type of Niedner mounting, very low, and without windage adjustment, has been produced for this type of rifle, and for use in conjunction with the Zeiss Zielklein scope with internal windage adjustment. This is a particularly fine combination for rifles with low bolt handles.

The Remington Model 30-S, the Savage Model 99 Solid Frame, and the Enfield Model 1917 rifle are so constructed that it is easy to mount and properly locate a big game hunting scope on them. The Noske scopes and mount above recommended can be used if desired, but we particularly recommend the above Zeiss, Unertl, and Hensoldt scopes with Niedner, Griffin & Howe, or Redfield mountings because of the excellent optical qualities. No modification of these rifles is necessary except that with the Enfield Model 1917 rifle the guards must be milled off the bridge of the receiver. The Redfield mount is the most satisfactory for the Savage rifle.

Considerable skill, special tools, and fixtures are necessary to mount these scopes on rifles. Local gunsmiths are, as a rule, not equipped or competent to do it. The rifle should be sent to us or to the maker of the mounting to have scope mounted on it, the small express charge being a good insurance against poor work.

In mounting a scope all that anyone can do is to mount it so that the line of aim aligns with the bore or the iron sights. such an alignment may by sheer luck assure correct sighting for its owner, or it may not be correctly sighted by as much as a foot at 100 yards, and, therefore, require further adjustment by shooting. Nor can any gunsmith reliably sight in a telescope sight for his customer by shooting because all men aim, hold, and squeeze differently, and no two lots of ammunition shoot alike. To do the close shooting that one buys a telescope sight to accomplish the sportsman must sight his rifle and scope himself. This he can readily do if he be skilled in marksmanship which includes knowledge of aiming, holding, trigger squeeze, and sight adjustment. Without such knowledge no one can get satisfactory results with any rifle or sight.

Noske scopes have internal adjustment for elevation and windage within the tube. With Type A instruments the reticule dials are graduated in minutes (1″ per 100 yards). The serrations on the dials of Type B instruments are likewise spaced one minute apart.

With Zeiss scopes 1/52nd of a revolution of the reticule dial changes point of impact one minute, and with Hensoldt scopes 1/72nd of a revolution makes a similar change. It is most convenient to have these dials graduated with lines one minute apart. The 3 power Unertl scope has the dial graduated with divisions two minutes apart.

With telescopes, turning the dial in such directions that the reticule apparently becomes lower in the field of view, results in taking increased elevation, that is, the rifle shoots higher.

The windage screws on the Niedner mount are graduated in minutes. To take one minute of windage to the left—loosen adjustment lock screw on top, turn inner adjustment screw one graduation left hand, turn outer adjustment screw one graduation right hand, and tighten adjustment screw.

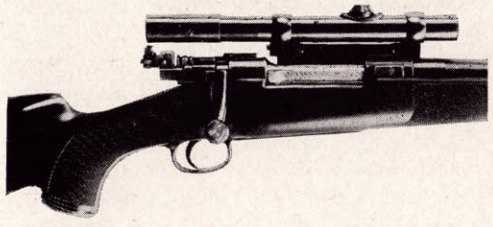
To adjust the Redfield mounting for windage to the left —turn left screw on rear mount out to the left, and then turn in on right screw a corresponding amount, always trying to screw one screw up against the other with equal tension.

Having taken a scope off the rifle, when you replace it, screw the two clamping screws up with firm but not destructive pressure, and try to make this pressure always the same. It should be understood that with all the scopes and mounts mentioned here, the scope comes off the rifle in about two to five seconds, leaving the rifle available for use without interference with the iron sights. The scope can then be replaced in an equally short time in perfect adjustment.

Guard the telescope as you would a good pair of binoculars. Wipe exterior off with an oily rag but do not let any oil get on the lenses. Keep lenses clean with a soft handkerchief. In snow or rain wiping the lenses off with the finger will give a slightly clouded but entirely visible image. In very cold weather do not bring a scope immediately into a heated camp as moisture would condense on the lenses, both inside and out. Better leave it outdoors, and the rifle, too. It is safest to take the scope off the rifle when riding a horse over rough country. With all the above scopes when the scope is removed the iron sights can be used unimpeded, but when one has learned to use a good scope well mounted he will never thereafter prefer to use iron sights for any purpose.

Not all scopes and mounts can be assembled to a proper location on all rifles. Usually there are one or two scopes, and one or two mounts which will be superior to all others on certain rifles. Therefore, scopes are listed separately from the mounts, and as mounting is a difficult mechanical operation which can be done only by a workman thoroughly familiar and skilled in the work, there is also a mounting charge. Therefore, to arrive at the price for a complete scope outfit, one must add the prices of the scope, mount, and mounting charge.

It will be noted that the mountings cost almost, if not quite as much as the telescopes. This is because the mounting must be a precision instrument, manufactured with the utmost skill. For example, if there be an error of as much as .001-inch in a mounting the attachments or adjustments of which are 3″ apart, that error would result in an error of 1.2″ on the target at 100 yards. The mounting must also be constructed of excellent heat treated alloy steel, and be of strong design, because the action of recoil of heavy big game cartridges is equivalent to striking the scope and mount a heavy blow forward with each shot, and the scope and mount must stand such blow without developing any looseness whatever. Certain mounts not listed here are of such design that they could not possibly withstand such blows without quickly developing a looseness which would result in prohibitive errors.



Zeiss Zeilklein Scope mounted low with Griffin & Howe mounting on Springfield rifle with altered bolt and safety.

ZEISS TELESCOPE SIGHTS

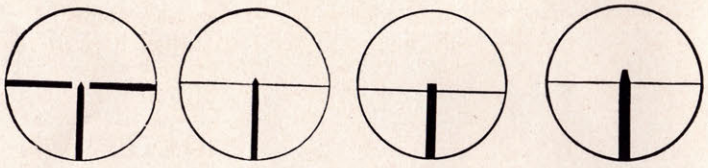
Zeiss Zielklein Telescope Sight.

Model	Magnifying power	Field of view at 100 yards—feet	Length of tube—mm	Weight of scope—oz.	Diameter of center tube—m/m	Price
Zielklein	2¼	34½	255	8.00	22	**$36.00**
Zielvier	4	32.4	270	13.75	26.5	**64.00**
Zieleins	1	81	268	11.25	22	**36.00**
Zielsechs	6	21	318	17.50	26.5	**74.00**
Zielacht	8	16.2	370	21	26.5	**84.00**
Zielmulti*	1 to 4	67.2 to 19.5	264	18.50	30	**94.00**
Zielmultar*	1 to 6	61.8 to 21	335	28.40	35	**94.00**

* Zielmulti and Zielmultar scopes cannot be furnished with American mountings.

All scopes have an eye relief of 8 cm, or approximately 3 3/16 inches.

All Zeiss scopes have graticule adjustable for elevation only by means of the dial on top of the tube. They can be furnished with any of the graticules as shown below. The No. 6 flat top post graticule is strongly advised. The Zielklein scope can be furnished with front lens adjustment for windage in addition to the elevation adjustment at an extra charge of $16. Leather dust caps furnished without charge.



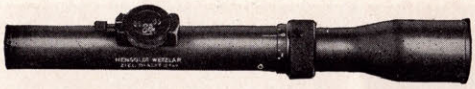
No. 1 **No. 2** **No. 6** **No 7**

Standard Graticules for Zeiss Telescope Sights.

Graticules 1, 2, and 6 can be furnished standard at no extra cost. Graticules 3, 4, 5, and Cross Hair can be furnished at a cost of $6 additional subject to a delay of six weeks. Cross-hair graticule on Zielmulti or Zielmultar. Price **$12.00**

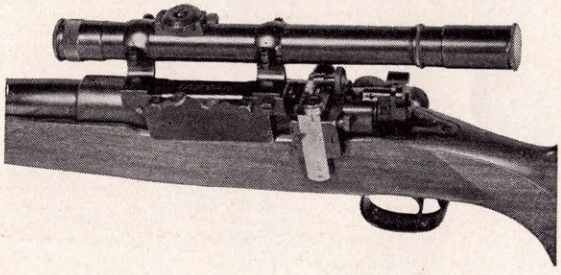
HENSOLDT TELESCOPE SIGHTS

Model	Magnifying Power	Field of View at 100 yards—Feet	Eye Relief—Inches	Length of Telescope—mm	Diameter of Center tube—mm	Price
Zielklein ...	2¾	28½	3.2	8	22	**$36.00**
Zielyt	2¾	40½	3.2	9	22	**45.00**
Zielvier	4	30	3.2	11	22	**54.00**
Dialytan ...	4	30	3.2	14	26	**75.00**



Hensoldt telescopes can be furnished with the No. 5 blunted picket post reticule, the blunted top of which subtends 3 inches at 100 yards (similar to the No. 7 Zeiss graticule), or the No. 4 cross hair reticule. The No. 4 cross hair reticule is strongly advised. The above telescopes have reticule adjustable for elevation only by means of a dial on top of the tube. They can also be furnished with front lens adjustment for windage in addition to elevation at an extra charge of $9. Leather dust caps furnished without charge.

UNERTL 3X BIG GAME HUNTING SCOPE



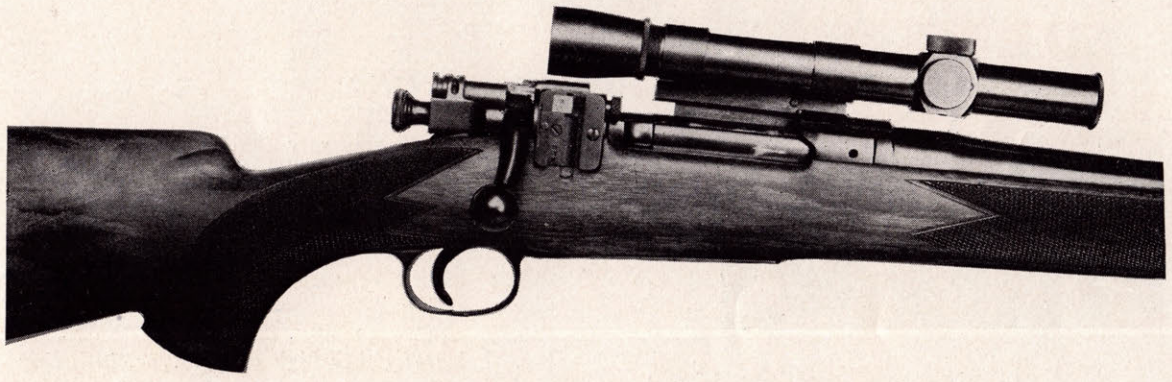
Magnifying power	3.
Fiell of view at 100 yds.—ft.	34.
Eye relief—inches	3.2
Length of telescope—inches	10.5
Weight of telescope—ounces	8.
Diameter of center tube—mm	22.
Price	**$35.00**

Furnished with flat top, blunted, and pointed post reticules with horizontal wire; also with cross hair reticule in two sizes. Specify type of reticule. The flat top post reticule which subtends 4 inches at 100 yards (similar to the Zeiss No. 6 graticule) is strongly advised. Scope has reticule adjustable for elevation only by means of a dial on top of the tube. The dial is graduated, each graduation moving point of impact 2 inches at 100 yards. The telescope is provided

with screw on type metal dust caps which are waterproof.

Important: For each of the above Zeiss, Hensoldt, and Unertl telescopes we have shown the eye relief, that is the distance that the eye must be in rear of the eyepiece or eye lens of the telescope in order to see the full field of view. But these figures do not tell the complete story as regards eye relief. With many scopes the field of view diminishes very rapidly as the eye is moved to the rear away from the eyepiece, so that when it is as far as 4½ inches from the eyepiece the field of view is very unsatisfactory. However, with the Zeiss Zielklein, the Hensoldt Zielklein, and the Unertl scopes the field of view diminishes very much less rapidly as the eye is moved back from the eyepiece, so that it is still quite satisfactory even with the eye 6 inches in rear of the eyepiece. This is of very great advantage in a hunting telescope because in hunting we cannot always assume the standard firing positions as we would on a rifle range, the inequalities of the ground, and firing up and down hill causing the hunter to assume positions in which the eye may be at greatly varying distances from the eyepiece. To modify these positions to get the eye at the right distance would take time and destroy the steadiness of the firing position. There fore, we believe that these three telescopes are, for this reason, much superior to all others for big game shooting except on rifles with high turn up bolt handles, where the Noske scope is best.

NOSKE TELESCOPE SIGHTS



Noske Scope or Springfield Sporting Rifle—A "National" Remodelled Rifle

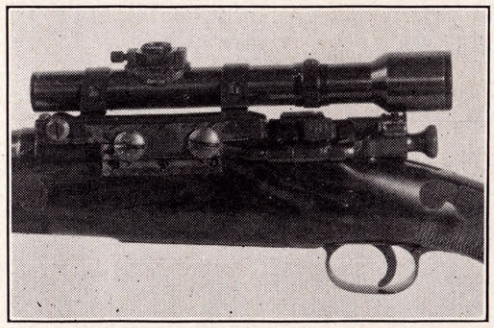
	Model	Magnifying Power	Field of View at 100 yards—feet	Eye Relief	Length of Telescope —inches	Weight of Telescope —ozs.	Price
Instrument	No. 1 Type A	2½	38	Long	9¼	9	**$52.00**
"	No. 2 Type B	2½	38	Long	9¼	8	**34.00**
"	No. 3 Type A	4	22	Long	10¼	9½	**54.00**
"	No. 4 Type B	4	22	Long	10¼	8	**36.00**
Mascot		3	40	2½	9¼	7½	**21.00**

Noske telescopes are furnished standard with single flat top tapered post reticule, which type is strongly recommended. For an extra charge of $3.50 a horizontal wire can be added to the flat top tapered post, or cross hair reticule can be furnished.

Noske telescopes have reticules which are adjustable for both elevation and windage, by means of dials on top and side of tube. On the Type A instruments the dial recess is provided with a screw-on cap which makes the dial dust and water proof. Dials on both Type A and B instruments have divisions or serrations which have an adjusting value of 1 inch per hundred yards in the 2½ power and Mascot scopes, and ½ inch per hundred yards in the 4 power scopes. Note that the Mascot scope has short eye relief and cannot be mounted in front of the bolt handle on bolt action rifles.

NIEDNER MOUNTING

This mounting slips on a bracket securely screwed and riveted to the left side of the receiver, and is secured thereto by two coin-slotted screws, the mechanical principle being such that the mount comes off and goes on the rifle in perfect adjustment. The materials and construction are such that it is not affected by recoil, and it is the strongest and most reliable mounting on the market. The mount above its dovetail attachment to the rifle, adjusts for windage by two opposed micrometer adjustment screws which are graduated in minutes. Two types of this mount are made, a high type which holds the scope high enough to permit the bolt handle of the Springfield, Winchester, and Mauser types of rifles to operate under the tube, and also permits one to use the iron sights while the scope is on the rifle. This type we do not



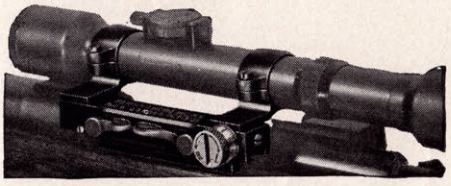
For Zeiss, Hensoldt, and Unertl Big Game Hunting Telescope Sights.

particularly recommend because, as we have said, a low mounting of scope (or high comb on stock) is essential for the accurate shooting one usually places a scope on a rifle to attain. The other type is a low type which holds the scope tube much lower on the rifle, and is particularly suited to such rifles as the Remington Model 30-S and remodelled Enfield Model 1917 rifles. This low type can also be used just as satisfactorily on Springfield, Winchester Model 54, and Mauser rifles when the bolt handles of these rifles have been altered to turn down lower, and trigger guard or side operating safety locks have been installed. It is our opinion that if price be not considered, a Zeiss Zielklein or Unertl big game scope with low Niedner mounting properly fitted to a suitable rifle is the best big game hunting telescope sight that it is possible to obtain. Its particular features are its strength, reliability, and durability.

Niedner mounting of either high or low type, including mounting charge, are priced at..... **$35.00**

Niedner special low mounting, without windage adjustment, for Zeiss, Noske and Hensoldt scopes having internal windage adjustment. Price..... **$25.00**

GRIFFIN & HOWE MOUNTING



For Zeiss, Hensoldt, and Unertl Big Game Hunting Telescope Sights.

This mounting is very similar to the Niedner mounting described above except that the mount secures to the base by two cam clamps with thumb-pieces instead of coin-slotted screws, and the micrometer windage screw with its clamp is placed at the rear end of the mounting. It also is made in high and low type, and is an entirely suitable and satisfactory mounting that comes off and goes on the rifle in a slightly more convenient manner than the Niedner mounting. Price of either high or low type, including mounting charge **$35.00**

CHARGES FOR ALTERING

Charges for altering bolt and safety on Springfield, Winchester Model 54, and Mauser rifles to accommodate scopes mounted with low type of Niedner and Griffin & Howe mountings:

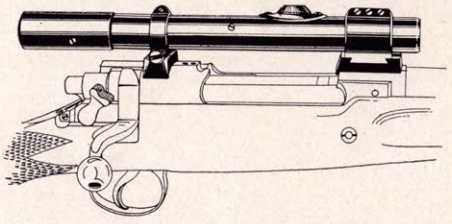
Altering bolt handle..... **$10.00**

Trigger guard safety on Springfield and Mauser rifles **7.50**

Redfield side safety on Springfield and Winchester M 54 rifles..... **4.50**

Graduating elevation dial on Zeiss and Hensoldt scopes **3.00**

REDFIELD MOUNT



For Zeiss, Hensoldt, and Unertl Big Game Hunting Telescope Sights.

This is a bridge type mount, made in two parts which are secured to the tube of the telescope. The front mount secures to a base firmly located on the ring of the receiver in front of the breech. The mount is placed on its base by fitting it in a position at right angles to the barrel, and then turning it parallel to the barrel, when the two dovetails interlock. The rear mount secures to the bridge of the receiver by two opposing screws, which also provide the windage adjustment. As with the Niedner and Griffin & Howe mounts, both a high and low type can be furnished, and the low type requires alteration of bolt handle and safety lock on the Springfield, Winchester Model 54, and Mauser rifles. When this mount is fitted, a receiver sight on the bridge cannot be used, and must be removed, but Redfield provides a simple disc aperture rear sight which can be secured in the rear scope base on the bridge when the scope is removed. This

type of mounting is particularly suitable for the Savage Model 99 RS rifle, and for single shot rifles. It is also best when the scope is left continually on the rifle and not removed after sighting in. While adjustable for windage by trial and error methods, the two opposing windage screws cannot be screwed up with precisely the same tension after the scope has been removed, and this sometimes results in a slight windage error when the scope is removed and replaced. But it is a very simple, strong, and satisfactory mounting.

The prices for the Redfield mount, not including the mounting charge, are as follows:

For Zeiss Zielklein, Hensoldt Zeilklein, and Unertl Scopes	**$20.00**
For Zeiss Zielvier, and Hensoldt Zielvier, and Dialytan Scopes	**25.00**
For Hensoldt Zielyt Scope	**23.00**
For disc block for use on rear base	**1.50**
Mounting charge	**5.00**

NOSKE MOUNT

For Noske telescope sights we recommend the No. 2 Noske mount. This mounting slips on a dovetail bracket securely screwed and rivetted to the left side of the receiver of the rifle, and is secured thereto by two coin slotted screws. As Noske scopes contain adjustments for both elevation and windage there is no adjustment in this simple but strong mounting. The scope comes off and goes back on the rifle in perfect adjustment. The slide of the receiver sight must be removed when the scope is placed on the rifle, but when the scope is removed, this slide can be replaced in perfect adjustment again in several seconds. The arrangement is very satisfactory.

Price of Noske No. 2 mounting	**$16.00**
Mounting charge	**5.00**

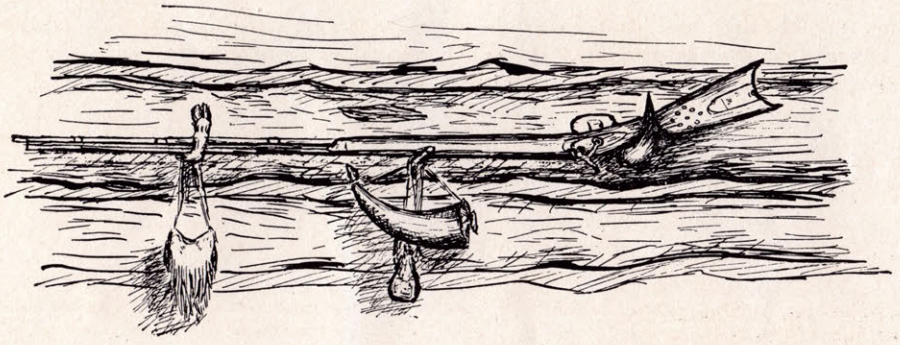
Other Pertaining Equipment

In addition to the rifle, or rifle and telescope sight, the big game hunter requires other equipment as listed below, for which we refer you to the proper sections in this catalogue.

Gunsling	Cleaning Materials
Binoculars	Gun Case or Cover
Score Book	Saddle Scabbard
Cleaning Rod (Short Sections)	Case for Telescope Sight

Ammunition

We do not handle ammunition, but refer you to your local dealer, who, if he does not have the calibers and makes of cartridges you wish on hand, will be glad to get them for you.



Section V

Junior Rifles

Introduction by Colonel Townsend Whelen

WE USE this term "Junior Rifle" to include those small, inexpensive .22 caliber rifles which are used so extensively by boys and girls, and also by adults who desire a small rifle shooting the inexpensive .22 caliber rim fire cartridge. The individual who purchases one of these rifles almost invariably wants "an inexpensive .22 caliber rifle for hunting and target shooting." Please note that the "hunting" requirement is almost always placed first.

On the general American market there is a far greater sale for this type of rifle than for any other and thus the various manufacturers produce many different models and types at extremely low as well as moderate prices. Formerly almost all of these rifles had poor stocks, and very ordinary open sights. Lately while the trend has been towards very much better stocks, the crude target sights with which they are equipped are not at all suitable for hunting.

Some of these rifles are cheaply and crudely made while others are well made considering their price, are of good materials, and must conform to minimum standards which assures safety, durability, and very fair accuracy. It is this latter type of these Junior rifles which we list here, and we consider them well worth their very reasonable price.

Almost none of these rifles are equipped with shooting gunslings and sling swivels. We believe that such equipment is absolutely essential for successful shooting, particularly on such light rifles and for this we refer our readers to the work "Small Bore Rifle Handbook." See Section II. We can equip any of these rifles with suitable sling swivels and a good shooting gunsling 7/8″ wide for $3.20.

It is seldom that efficient iron hunting sights are made for these rifles although sometimes a sight designed for another rifle can be fitted at extra cost. However, almost all of these rifles can be fitted with one of the inexpensive small telescope sights and such sights are almost always superior to inexpensive iron sights for hunting small game. Remarks as to sight equipment are made under each rifle listed below.

All of these rifles are chambered for the .22 Long Rifle cartridge and will use either the regular velocity or the high speed cartridges of this caliber. Usually all .22 cal. rifles shoot with best accuracy with one of the regular velocity cartridges loaded with lubricated lead bullets. Also the most accurate high speed cartridge will usually be found loaded with a lubricated lead bullet.

We list the preferred types and models of Junior Rifles below.

WINCHESTER MODEL 67 RIFLE

New Bolt Action Single Shot Rifle, shoots .22 Short, .22 Long, and .22 Long Rifle Rim Fire Cartridges interchangeably. Winchester design, materials, workmanship and dependability at a price which gives this new rifle remarkable value, unique in its class. A full, man's-size, light-weight single shot .22 with military type bolt action. Safety rebounding firing pin with new firing pin safety lock. When unlocked, can strike cartridge only when trigger is pulled. When locked, trigger cannot be pulled. New pear-shaped bolt handle; bolt and trigger are brightly chromium plated, adding a distinctly "class" impression and protection against rust. The one-piece full sized stock, with pistol grip, is genuine walnut and correctly designed for best fit in all shooting positions. Large forearm of ample length is deep and well rounded with convenient thumb-and-finger grooves. The symmetrical round 27 inch barrel is tapered, crowned at muzzle and bears the Winchester proof mark of quality. Sight equipment includes front bead sight with bright alloy tip that will not tarnish. Rear sight is a Winchester Sporting type with sliding elevator. An exceptionally good-looking, well-balanced, nice handling, well made and accurate rifle which any man or boy will be proud to own. Weighs about 5 lbs. Take down only.

Price, chambered for .22 Short, Long and Long Rifle cartridges, or for .22 W. R. F. cartridge, only **$5.25**

These rifles are suitable for telescope sight and gunsling.

WINCHESTER MODEL 69 RIFLE

Bolt Action Repeating Rifle shoots .22 Long and .22 Long Rifle Rim Fire Cartridges, and, by changing magazine .22 Shorts. Designed and produced by Winchester to meet the steadily growing demand for a .22 rim fire repeater built closely like the highly popular new bolt action, single shot Winchesters, Models 67 and 68. Embodies superior Winchester features linked with recent improvements and is styled in a thoroughly modern manner. Exceptionally attractive to both young and experienced shooters. The safety breech bolt, of a highly successful Winchester design, is fast handling, quick firing, dependable, strong, simple, fool proof. New ovoid shaped bolt handle. Positive firing-pin safety, cannot be shifted by accident. Strong twin extractors insure exact cartridge alignment and straight-line loading without bullet mutilation. American walnut stock, full size, sporting type. Correct pistol grip, amply large. Deep, wide, semi-beavertail forend. Composition butt-plate. Round, tapered, 25-inch barrel, with crowned muzzle. Winchester sporting front sight on non-glare ramp base, has brilliant, non-tarnishing metal bead and steel cover. Latest Winchester rear peep sight with finger-controlled, graduated windage and elevation adjustments and eye disc is mounted on receiver bridge close to shooter's eye providing extra-long sighting radius. Detachable regular target-type box magazine inserted from below, holds five cartridges. Two magazines provided, one for Long and Long Rifle cartridges; one for Shorts. Extra five- or ten-shot magazines available. Overall length of rifle 42 inches. Take-down 29½ inches. Weight approximately 5 lbs.

Price with peep sight **$11.50**
Price with open sight **$11.25**

Suitable for telescope sight. Gunsling with swivels can be fitted for **$3.20**

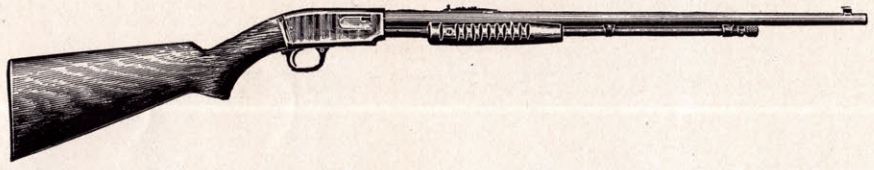
WINCHESTER MODEL 63 RIFLE

10 shot .22 caliber rifle, shooting the .22 Long Rifle High Speed cartridge. A new .22 automatic rifle with finer accuracy and greatly increased bullet speed, power and accuracy range. Developed from the unrivalled Winchester Model 03. Excellent for moving target work. And for running small game—squirrels, jackrabbits and small varmints. New specially designed walnut stock with pistol grip; wider and deeper walnut forearm. Tapered round barrel, 20 or 23 inches. Lyman Gold Bead 3W front sight with 5/64-inch bead. Winchester 32B adjustable rear sight with sliding elevator. Has 10-shot straight-feed magazine loading through a port in side of stock. Weight approximately 5¾ lbs. Handles like a short, light small-bore shotgun. Take down only.

Price, 20 or 23″ barrel..... **$31.50**

This rifle should be fitted with Lyman No. 56 receiver sight, and a Lyman gold bead front sight of proper height, price, $8.00 extra. Suitable for telescope sights. Particularly for rapid shooting we recommend the 3 power Fecker small game scope with 18″ tube, flat top post reticule, and Fecker standard mounts, price $30.00. When so fitted stock should have a Jostam Monte Carlo check pad ¼ inch high-laced on the stock, price $3.00. Rifle is adjusted for high speed cartridges, but in warm weather will function perfectly with regular velocity cartridges.

WINCHESTER MODEL 61 RIFLE



Slide Action Hammerless .22 Repeater shoots .22 Short, .22 Long and .22 Long Rifle Rim Fire Cartridges. In .22 Short is very popular for a lot of shooting, and extensively used in shooting galleries. In .22 W. R. F. it is a great favorite for hunting. Standard grade has shotgun style walnut stock with steel butt plate and well curved pistol grip; semi-beavertail action slide handle. Round tapered barrel 24 inches. Lyman Gold Bead front sight; Winchester 32B sporting rear sight. Tang is drilled for tang peep sight. Magazine holds 20 Short, 16 Long or 14 Long Rifle .22 cartridges. Convenient take down. Weight approximately 5½ lbs. Same model with 24-inch tapered octagon barrel, about 5¾ lbs. Take down only.

Price for .22 Short, Long & Long Rifle, round barrel **$23.25**
Price for all single cartridges, octagon barrel..... **$24.65**

Suitable for scopes but not for gunsling. We recommend Lyman No. 56 receiver sight and Lyman gold bead front sight of proper height, price **$8.00** extra.

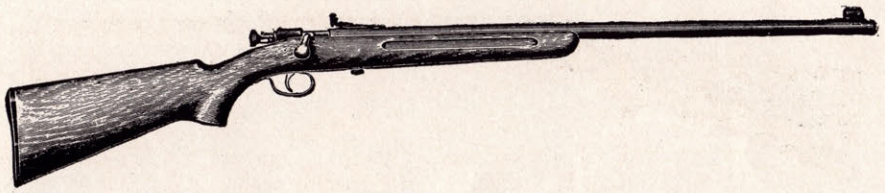
WINCHESTER MODEL 62 RIFLE

Slide action hammer .22 repeater shoots .22 Short, .22 Long and .22 Long Rifle Rim Fire Cartridges. Has a fast, snappy action and fine balance—well adapted for moving targets and running small game. Accurate. Dependable. Durable. Handy. A popular all-around .22 for men and young shooters alike; widely used in shooting galleries. Shotgun type walnut stock with composition butt plate and straight grip; new design walnut action slide handle. Round tapered barrel 23 in., with metallic bead front sight; Winchester 32B sporting rear sight. Magazine holds 20 Short, 16 Long or 14 Long Rifle cartridges. Simple, handy take down. Furnished chambered for .22 Shorts only at no extra charge.

Price **$17.25**
We recommend Lyman No. 103 rear tang sight,
Price **$9.00**

Not suitable for scope or gunsling.

WINCHESTER MODEL 68 RIFLE



Bolt action single shot rifle shoots .22 Short, .22 Long and .22 Long Rifle Rim Fire Cartridges interchangeably, also furnished for .22 W. R. F. cartridge only.

The military bolt with its new positive safety is another important and striking feature. The safety lock lever tells at a glance, by blocking the line of sight, when the firing-pin is locked, preventing discharge. The new pear-shaped bolt handle is the right size to fit hand comfortably and securely. Bead front sight with bright, non-tarnishing alloy tip, mounted on non-glare ramp base, with steel sight cover. Rear sight is a new, original Winchester aperture (peep) type, quickly and accurately adjustable for both windage and elevation. Stock genuine walnut of special new design, with pistol grip and having ample-size forend, with military thumb-and-finger grooves. Tapered 27 inch round barrel, crowned at muzzle. Weight approximately 5 lbs. Take down only.

Price **$6.00**

REMINGTON MODEL 341 BOLT ACTION REPEATING RIFLE

24 inch round barrel, polished bolt, magazine holds 15 .22 Long Rifle cartridges, small composition shotgun butt-plate, military type thumb safety, weight about 6 pounds. The new "Sportmaster." A very accurate, dependable arm.

No. 341P with receiver peep sight and hooded front sight good for target shooting **$14.70**

No. 341A, same with sporting rear and white bead front sights **$13.95**

Note: When this rifle is desired for hunting as well as target shooting the Model 341A should be ordered fitted with Redfield No. 102 rear sight with screw type adjustment and Redfield protected gold faced Patridge front sight price $5.25 extra.

Sling swivels and shooting gunsling can be fitted to either model for **$3.50.** Either model can also be had with screw-holes for Lyman No. 422 Expert scope, price **50¢.** Cut shows rifle with telescope sight.

REMINGTON MODEL 241 AUTOLOADING RIFLE

The new "Speedmaster." 24 inch round barrel for the .22 Long Rifle cartridge, either regular velocity or high speed. Can also be had for the .22 Short cartridge only. Magazines hold 15 Short and 10 Long Rifle cartridges. Sporting rear and white bead front sights. Weight about 6 pounds.

Price standard grade **$29.95**
Same special grade **$45.30**
Same Peerless grade **$80.00**
Same Expert grade **$116.80**
Same Premier grade **$142.00**

We recommend Lyman No. 56 receiver sight and Lyman gold bead front sight of proper height, price $8.00 extra. Sling swivels and shooting gunsling fitted at $3.20 extra. Rifle is suitable for scope sights.

REMINGTON MODEL 41 BOLT ACTION SINGLE SHOT RIFLE

The new "Targetmaster." 27 inch barrel for the .22 Long Rifle cartridge. Remington adjustable peep sight, and hooded front sight for target shooting.

Model 41P **$6.00**
Model 41A Same but with open sights..... **$5.25**

When so ordered, either model can be had with screw holes for Lyman No. 422 Expert scope. Price 50¢.

We can also fit this rifle with sling swivels, and with a very satisfactory shooting gunsling 7/8" wide for $3.20 or can so fit these rifles in lots of four or more for boys camps and schools for $2.75 each.

REMINGTON MODEL 12 SLIDE ACTION REPEATING RIFLE

Slide action, hammerless solid breech takedown. Has given excellent service for many years.

No. 12A. Standard grade 22" round barrel, open sights, chambered for .22 Short, Long and Long Rifle cartridges without adjustment **$19.95**

No. 12B. Gallery Special Grade, 24" octagon barrel, chambered for .22 short cartridges only, open sights **$21.35**

No. 12C. Target Grade. 24" octagon barrel chambered for .22 Short, Long, and Long Rifle cartridges without adjustment. Open sights..... **$21.35**

No. 12CS. "Remington Special" Grade. 24" octagon barrel, chambered for .22 Remington Special (22 W. R. F.) cartridge open sights..... **$21.35**

No. 12C. "N.R.A. Target" grade, 24" octagon barrel, .22 Long Rifle only, Lyman No. 2 rear sight, target stock, sling..... **$35.25**

Also the following special grades with 24" octagon barrel, open sights, and chambered for .22 Short, Long, and Long Rifle cartridges without adjustment.

No. 12D "Peerless" Grade..... **$78.55**
No. 12E "Expert" Grade..... **$122.40**
No. 12F "Premier" Grade..... **$152.75**

Nos. 12DS, 12ES and 12FS chambered for the .22 Remington special (.22 W.R.F.) cartridge, same prices as 12D, 12E and 12F.

All Remington Model 12 rifles are suitable for either Hi-Speed or Regular Velocity cartridges. We recommend that these rifles be fitted with Lyman No. 56 receiver sight, and with Lyman gold bead front sight of the proper height, price $8.00 extra. These rifles are suitable for telescope sights.

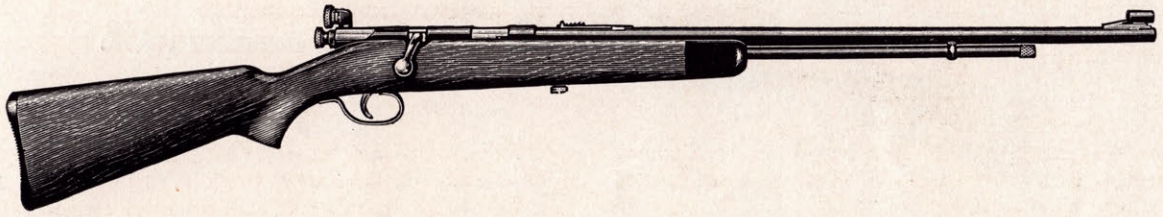
STEVENS NO. 418 WALNUT HILL TARGET RIFLE .22 LONG RIFLE

26 inch barrel, takedown, automatic ejector, original Stevens "Ideal" breech block, pistol grip of American walnut, oil finish, and of excellent design, fitted with sling swivels and excellent 7/8" Govt. type shooting gunsling. Sights are Lyman No. 144 rear sight click adjustment for elevation and windage, and black Patridge front sight. Price **$18.00**

No. 418½. Same as above, but with Lyman No. 2A rear sight (which does not have windage adjustment) and Lyman gold bead front sight. For .22 Long Rifle, .22 W.R.F. or .25 Stevens R.F. cartridges, weight about 6½ pounds. Price **$16.00**

When these rifles are fitted with Lyman No. 144 rear and Redfield protected, gold faced, Patridge, front sight, price $19.50 so fitted, they are perfectly adapted to both hunting and target shooting. Very suitable for telescope sight.

STEVENS BUCKHORN BOLT ACTION RIFLES



All have full size stock, walnut finish, full pistol grip, large forearm with black tip, hard rubber butt-plate, chromium plated bolt and trigger

No. 066. With tubular magazine for .22 Long Rifle cartride, 2 inch round barrel, hooded target front sight, aperture target rear sight, folding open sight on barrel, weight about 6 pounds **$12.65**

No. 66T. Same with open sights only, and with screw holes for Weaver No. 20 telescope sight **$11.85**

No. 056. Same as No. 066, but with detachable clip magazine **$10.85**

No. 56T. Same as No. 056, but with open sights only, and screw holes for Weaver No. 20 telescope sight **$9.95**

No. 055. Single Shot, chambered for .22 L. R., .22 W.C.F. or .25 Stevens R.F. Otherwise same as No. 066 ..... **$7.70**

No. 053. Same as No. 055 but with shorter, lighter action, weight about 5¼ pounds **$6.00**

No. 53T. Same as No. 53 but with open sights and screw holes for Weaver No. 20 telescope sight **$5.25**

No. 52. Same as No. 053, but with single shot and open sights **$4.95**

Weaver No. 20, 4 power telescope sight for above rifles **$8.00**

Weaver No. 10, 3 power telescope sight for above rifles **$4.75**

Note: Any of the above Stevens rifles can be fitted with sling swivels and ⅞" shooting gunsling for $3.20.

SAVAGE MODEL 23AA SPORTER RIFLE

Bolt action, 23" barrel for .22 Long Rifle cartridge regular or high speed, 5 shot detachable magazine, open rear sights, walnut pistol grip stock oiled finish, weight 6½ pounds **$21.50**

Note: We recommend that all Savage No. 23 rifles be ordered fitted with No. 3, ⅞" sling loops and screw studs, price 50 cents and with Savage ⅞" No. 3 leather shooting sling strap, price $1.90.

For hunting or combined hunting and target shooting we recommend the Pacific Model SA2 rear sight, price $6.00. Suitable for telescope sight.

SAVAGE MODEL 29 SLIDE ACTION REPEATING RIFLE

Chambered for .22 Long Rifle cartridge, 23 inch octagon barrel open sights, pistol grip stock of walnut with grip and forend checkered, takedown, weight about 5¾ pounds **$19.50**

Same but with Savage No. 30 rear peep sight and No. 31 folding middle sight **$22.00**

We recommend Lyman No. 56 receiver sight with Lyman gold bead front sight of proper height, price $8.00 extra. Suitable for telescope sight.

SAVAGE .22 CALIBER BOLT ACTION RIFLES

All for .22 Long Rifle cartridge regular or high speed, pistol grip stock of walnut, hard rubber butt plate, weight 5 to 5½ pounds.

No. 4-S. Repeating rifle, takedown, clip magazine, 5 shots adjustable aperture target front sight, hooded target front sight, with three insert discs **$11.50**

No. 4-T. Same as No. 4-S, but with open sights and with screw holes for Weaver No. 20 telescope sight **$10.75**

No. 5-S. Same as No. 4-S, except tubular magazine instead of clip box magazine **$13.50**

No. 5-T. Same as No. 5-S, but open sights and with screw holes for Weaver No. 20 telescope sight. **$12.75**

No. 3-S. Same as No. 4-S except single shot only **$6.00**

No. 3ST. Same as No. 3-S except with 7.8″ sling and loops **$8.00**

No. 4-T Savage Rifle with Weaver No. 20 telescope sight

No. 3-T. Single shot, same as No. 3-S, except open sights, and screw holes for Weaver No. 20 telescope sight **$5.25**

Weaver No. 20, 4 power telescope sight..... **$8.00**

Weaver No. 10, 3 power telescope sight..... **$4.75**

Note: Any of the above Savage bolt action rifles can be fitted with sling swivels and ⅞″ shooting gunsling for $3.20 extra.

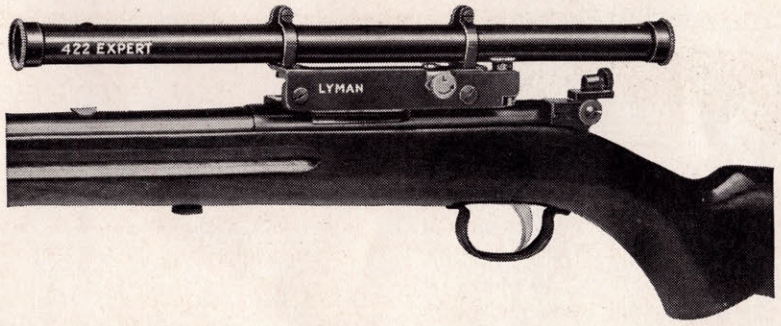
MARLIN MODEL 39 LEVER ACTION RIFLE

The only lever action .22 caliber rifle made. Uses .22 Short, Long, or Long Rifle cartridges interchangeably, including high speed cartridges. Magazine holds 25 Short, 20 Long, or 18 Long Rifle cartridges. 24 inch octagon barrel, full magazine, takedown, side ejection, solid top, closed in frame, case hardened receiver. Silver bead front and Rocky Mountain rear sights. Pistol grip stock and forearm of American walnut, unbreakable butt-plate. Length over all 41 inches, weight about 5¾ pounds. Suitable for gunsling and telescope sights. Stock needs a cheek pad to raise comb when used with scope.

Price **$25.00**

LYMAN NO. 422 "EXPERT" TELESCOPE SIGHT

For all .22 cal. Junior Rifles (except Winchester Model 62)



Specifications of the Lyman 422 Expert Scope

Bausch & Lomb Lenses

The 422 Expert Scope is the only low priced scope equipped with Bausch & Lomb lenses, the standard of quality. The lenses enlarge the object aimed at 4 times and give crystal clear view in sharp relief on a field diameter of approximately 25 feet at 100 yards. Always in focus at all distances beyond 15 feet. The heart of the scope is its lens system. The remarkable value here offered is proved by the splendid results in shooting small game or vermin.

Cross Hair Reticule

The standard single cross hairs are "fine" diameter suitable for Hunting and Target Shooting as used on highest priced scopes.

Designed for .22 Rifles

The overall length is 13½ inches, admirable for field shooting. The weight is 14 ounces which is the best proportioned weight of a scope to be used on a .22 caliber rifle to give perfect balance. All materials are selected for strength and lightness. Workmanship is high grade throughout. The Expert is recommended only to use with rifles calibered for .22 Short, .22 Long, .22 Long Rifle and .22 Hornet Cartridges. Shipping weight 1 lb. 8 oz.

Micrometer Click Mount

Adjustable for windgauge and elevation with knurled screws. Clicks are distinct to the ear, with graduated scale for sighting within very close limits. Mount is of proper weight and strength to remain rigid and in adjustment when used in field shooting.

Mounting Screws Spaced for Rigidity

Two mounting screws securely fasten the mount to the rifle. The screws are spaced 2¾" apart to give rigidity to both scope and mount.

Mount Allows Use of Metallic Sights

Although well down on the barrel, the Expert Mount on most rifles does not interfere with the metallic sights, so that either the scope sight or metallic sights may be used when desierd. Measurement from center of lens to center of bore about 1½ inches, which permits targeting the rifle for point blank range with both metallic and scope sights without removing either.

Eye Relief

It is desirable to attach mount to receiver where this can be done conveniently but on guns so designed that mount must be located wholly or partly on barrel, the scope can be adjusted so that the eye relief of 1¾" (distance from the rear of the scope to the point where the eye sees the maximum field) is correct.

To Attach the Mount

Most gunsmiths are familiar with fitting Lyman Scopes and have taps and drills for this purpose. However, unless specified, in which case proper deduction for cost is made, the No. 422 Lyman Expert Scope will be furnished with a tap and a drill for making the mounting screw holes.

To Remove Scope from Mount

The elevation joint screw and elevation binding screw, both located on the side of the mount, are first removed. This permits a section of the mount to be removed without disturbing the base that is attached directly to the gun.

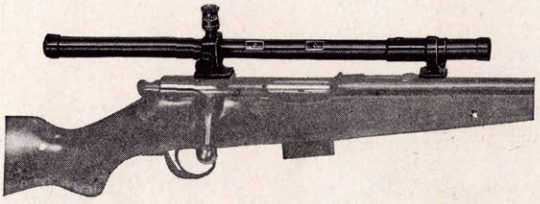
To Adjust for Windage and Elevation with Micrometer Click Mount

Windage and elevation knobs have five graduations. There are four clicks to each graduation. One click will move the point of impact approximately ½" at 50 yards or 1" at 100 yards. A complete turn (20 clicks) moves the mount one scale graduation, either windage or elevation. To move point of impact to the left, turn the windage knob counter-clockwise as marked by the arrow. For right adjustment turn knob clockwise. To raise point of impact turn elevation knob counter-clockwise as marked. To lower, turn clockwise. Windage and elevation locking screws must first be loosened before turning knobs, and tightened after adjustments are made.

Align Scope and Rifle by Bore Sighting

Bore sighting on bolt rifles saves time and ammunition. After the scope is properly mounted, set the rifle in a rest and remove rifle bolt. Sight through the bore to center it on a mark or target. Then without moving rifle, loosen windgauge and elevation locking screws and proceed to bring the scope cross hairs on the same mark by adjusting for windgauge and elevation as described above. When adjusted, be sure locking screws are tight. Price.... **$10.00**

WOLLENSAK RIFLESCOPE



This four power riflescope makes the target or object appear four times larger or four times closer, thereby making it easier for the shooter to see exactly where he is sighting.

A riflescope is humane in hunting, it permits the vital part of the animal to be sighted, allowing the kill to the made with more accuracy; it promotes steadiness and makes target and small game shooting very sporting and more fascinating and intriguing.

The five lens optical system gives high light transmission and clear view. Each scope is focused at the factory to reveal objects clearly from close-up to infinity without further adjustments.

The rear mount holds the scope in three point suspension and is equipped with micrometer screws for windage and elevation adjustments.

The front mount has a sleeve and spring plunger which engages in a groove to prevent the scope from rotating in the mount. Provisions are made however, to permit the scope to slide when subject to recoil.

Bases for holding mounts to rifle are accurately machined and supplied with screws ready to attach, and are made in various sizes to fit practically all rifles.

SPECIFICATIONS

Field of view	23′ at 100 yards
Diameter of objective lens	5/8″
Outside diameter of tube	3/4″
Overall length	15 1/4″
Reticule	Cross hair
Eye relief	2″
Weight with mounts	17 oz.

Price complete with mounts, taps, drill and instructions **$10.00**

Riflescope only with cross hair reticule **6.50**

Mounts with taps and drill **5.00**

Reticules—Post, Post and Cross hair, cross hair, each **1.00**

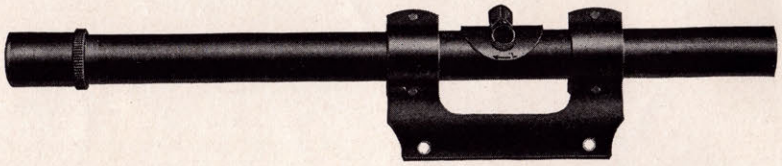
Please specify the make and model rifle when ordering.

Offset Bases permit the scope to lie over the side of the barrel instead of on top **$1.50**

STEVENS TELESCOPE SIGHTS

(Weaver Design)

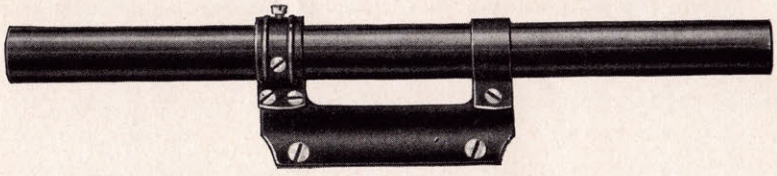
For Stevens and Savage .22 cal. Rifles



NO. 20 TELESCOPE SIGHT

No. 20 Telescope Sight—4 power magnification. Adjustable focus at eye piece. Length 11 in., weight 10 ounces complete with mount. Solid, one piece, all steel, rigid mount. Windage and elevation adjustments internal. Fine cross hair reticule. Mounts constructed to allow use of open sights on rifle without removing telescope.

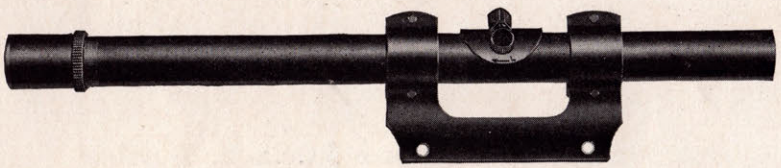
The Internal Click Adjustments for windage and elevation are controlled by low, knurled graduated knobs. Each click can be distinctly heard and felt and will move the bullet 1/2 inch at 100 yards, 1/4 inch at 50 yards, 1/8 inch at 25 yards and proportionately at other ranges. Arrow indicates the direction to turn the knobs for moving higher or lower, left or right. Elevation control is at top of the scope; windage control at the right side **$8.00**



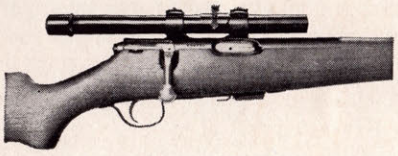
NO. 10 TELESCOPE SIGHT

No. 10 Telescope Sight—3 power magnification. Universal focus. Length 10 in., weight 8 ounces complete with mount. Solid, one piece, all steel, rigid mount. With positive screw adjustments for elevation and windage. Medium fine cross hair reticule. Mounts constructed to allow use of open sights on rifle without removing the telescope Quick removable—no sight bases left on barrel **$4.75**

WEAVER TELESCOPE SIGHTS
FOR .22 RIM FIRE, .22 HORNET AND .25-20 RIFLES



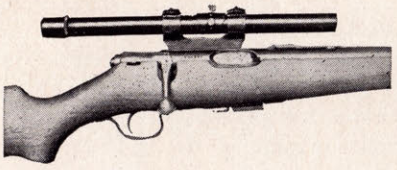
The "Wee Weaver" Special Telescope Sight Model 29S. Slight adjustment double internal with ½ minute clicks, Achromatic Lens system. 3 power. Field of view 29 feet at 100 yards. Focus universal. Diameter of tube ¾ inch. Weight with mounts 9 ounces. Length 10 inches. Blued finish. Medium cross hair reticule. Also adapted to high power rifles. Price with mounts, drill, and tap **$11.70**



No. 333 with Type S Mount (low type)

Weaver Rifle scopes Models 333 and 344. Double internal adjustment with ½ minute clicks. Eyepiece adjust for focus. Weight: 333, 10 ounces; 344, 10½ ounces. Length: 333, 11 inches; 344, 12½ inches. Power: 333, 3-X; 344, 4-X. Field of view: 333, 33 feet; 344, 36 feet at 100 yards. Eye relief, 2 inches. Diameter of tube, ¾ inch. Fininsh, blue. Medium cross hair reticule.

The mount is of the "S" type, either high or low as desired. It consists of a side bracket holding the scope central over the barrel, and has no adjustments, all adjustments being internal in the scope itself. It is held to the rifle by two large knurled screws which can be removed, and the mounting and scope removed from the rifle leaving no bases on the rifle. The low type of mounting holds the scope about ⅛" to ¼" above the receiver of barrel, and the high type permits the use of metallic sights with the scope in position. The tube does not slide in the mounts. It may also be obtained with type V mounts at the same price.



No. 344 with Tpye S Mount (high type)

No. 333, 3 power with either height mount.....	**$7.75**
No. 344, 4 power with either height mount.....	**8.00**
Drill and tap	**.50**
Rubber eye cup	**.30**

Note: When ordering Weaver scopes always give the make, model, and caliber of the rifle, and also the type of mount preferred.

"WEE WEAVER" MODEL 329 SCOPE—3 POWER

Medium cross hairs, field of view 29 feet at 100 yards. Focus universal, 3" eye relief. No adjustment of reticule. Adjustment is provided for in the mounting which may be either the Type V or the Type M. Price with mounting **$4.75**

OTHER PERTAINING EQUIPMENT

In addition to the rifle, or rifle and telescope sight, the junior marksman and the adult user of these rifles require other equipment as listed below, for which we refer you to the proper sections in this catalogue:

Gunsling
Spotting Scope
Scope Stand
Rifle Rest
Score Book
Cleaning Rod
Cleaning Materials
Gun Cover

Section VI

Revolvers and Pistols

Introduction by Colonel Julian S. Hatcher

THE choice of a revolver or pistol depends on several factors such as the use to which the arm is to be put; the relative preference of the prospective owner as between revolvers and automatic pistols; his degree of training, skill and experience in matters relating to firearms; etc.

Among the usual reasons for the purchase of a handgun are the following: A desire to participate in the sport of organized target shooting; the want of a handgun to take on hunting, camping or fishing trips for small game shooting or "plinking" at tin cans, bottles and whatnot; the need for a weapon for home or personal defense; or the necessity for an emergency sidearm for hunters' explorers or the like.

For any of these purposes an entirely suitable weapon may be chosen from among either the automatic pistols, or the revolvers and single shot pistols; but it should be realized that, especially for beginners, the automatics are considerably the more dangerous and require the *utmost* care in handling. After the first shot they are always *loaded* and *cocked*. For this reason it is recommended that the beginner choose either a revolver or single shot pistol for his handgun.

Learning to shoot accurately is the foundation of all effective shooting, including not only target work but also rapid fire and practical shooting of all kinds. The fastest shooting in the world is useless unless *hits* are made.

For accurate shooting, it is necessary to have a gun with an accurate barrel, a well fitted cylinder (for revolvers) and good smooth lockwork giving a moderate, uniform trigger pull, free from creep or drag. Moreover, the sights must be adjustable for the reason that the variations in eyesight, the size and shape of the hand, the method of gripping and holding the weapon etc., from one individual to the next are such that a gun which is properly sighted for one man may group some distance from the desired point for another; and in addition, the differences in ammunition may require radical differences in sight adjustment.

Only the high grade target and outdoorman's revolvers and pistols have satisfactory adjustable sights. Except for the smaller personal defense revolvers all the handguns listed in this catalog are of that type. They have light, hand adjusted trigger pulls and clean-cut adjustable sights. Any of these guns will give an eminently satisfactory account of itself if it is chosen for the use for which it was designed and intended. It will of course be understood that for the most satisfactory ownership, intelligent choice should be exercised and these paragraphs are intended to aid the reader in making that choice.

The beginner's *first gun* should almost invariably be a .22. There are several reasons for this. In the first place, a revolver or pistol of large caliber gives a very noticeable report and recoil which is apt to be so disturbing to the beginner that target practice actually makes him shoot worse instead of better by causing him to acquire the habit of flinching. In many cases this is done unconsciously because the noise and recoil so mask and hide the flinch that the shooter has no indication of his error. With the .22 there is so little noise or recoil that marksmanship can be learned with no great danger of getting the flinching habit; and the shooting ability thus acquired with the .22 will continue as a matter of course when the larger calibers are undertaken.

Another reason for choosing a .22 is the fact that the low price of the ammunition allows the user to obtain ample practice without burdensome expenditure of funds. Everyone knows that it requires practice to produce perfection, and this is especially true in learning to shoot. With a large caliber pistol or revolver the ammunition is quite expensive and for most owners of such a gun, the amount of shooting that can be indulged in is strictly limited by the very considerable cost of the cartridges. With the .22, the ammunition is extremely accurate, but is so inexpensive that almost anyone can do as much shooting as he wants without the necessity of considering his ammunition bill.

This accounts for the apparent paradox that two guns may sometimes be cheaper than one; for the owner of a .38 or .45 caliber automatic, or of a .38 caliber target revolver may find by purchasing an exact duplicate of his gun in .22 caliber (Ace automatic pistol, .22 Officer's Model, or K-22 revolver), he can more than save its cost by the reduction in the amount spent for ammunition, and at the same time he can actually do *more* shooting.

The prospective *Target Shot* will find several classes of shooting open for his participation, each needing its own type of gun, as follows:

The slow fire .22 caliber matches, for which he would want either the Camp Perry Model or the U. S. R. A. Model single shot pistol, or the equally accurate Woodsman automatic.

The .22 caliber revolver or automatic pistol matches, which include not only slow fire, but timed and rapid fire as well, and for which he would need either a .22 caliber Officer's Model or K-.22 revolver, or the versatile .22 caliber Woodsman automatic.

The big bore revolver matches, for which he would want a target revolver of .38 special caliber in either the medium frame type (Colt Officer's Model, S. & W., Model K Target), or in the heavy frame Colt Shooting Master, Smith & Wesson 38/44 Outdoorman's Revolver.

The National Pistol Matches are fired only with the service .45 automatic.

Even if the shooter expects to engage in only one of these classes of shooting, the chances are that he may later change his mind and want to try his luck in some of the others, in which case he will find that success will come more easily if he has made the best choice of arms for his first venture into the field of target competition.

He will probably want to start in with the .22 caliber slow fire "Any Pistol" matches, but if he is later going to shoot in the revolver matches, his best choice of a single shot will be the Camp Perry Model which is built on the same frame as the Officer's Model Revolver. Thus all his slow fire work is getting him used to the feel of the revolver he will later use, and when he shifts to the .22 caliber revolver matches or the .38 matches the gun will feel just the same in his hands as the one he has already been using. There is truth in the old saying "Beware of the man who sticks to one gun."

If, on the other hand, he has an ambition to become an automatic pistol shot, with the idea of later going into the National Pistol Matches, he could well use the .22 Woodsman automatic, for this splendid gun is capable of the very highest accuracy and will hold its own in any company. If he is sure that he is going to be principally interested in the slow fire matches I would recommend the .22 Harrington & Richardson U. S. R. A. Model Single Shot Pistol, which has the advantage of having several different styles and sizes of interchangeable grips available, thus enabling the user to choose one to best fit his own hand.

The man who is going to shoot in both the .22 and the .38 caliber revolver matches should have both his revolvers alike, which is easily accomplished, because the Colt Officer's Model and the Smith and Wesson Model K target revolvers are each made in both the .22 and the .38 Special calibers. The .38 Special is the caliber that should be chosen for all big bore revolver matches, for this cartridge has been developed to a higher point of accuracy than any other center fire revolver cartridge.

The user of either the .38 Super Automatic or the .45 automatic will want an exact duplicate of his big gun in .22 caliber and this want is supplied in the "Ace" pistol.

The prospective "plinker" who wants a gun to take on camping trips, etc., will find his needs fully met by any of the high grade .22 caliber revolvers or automatic pistols such as the .22 Colt Officer's Model, the S. & W. K-.22 the H. & R. Sportsman revolver, or the Colt Woodsman .22 automatic.

When a handgun is wanted for personal protection, the question of effectiveness, or stopping power, must be considered. Experience has shown that stopping power depends more on the caliber or diameter of the bullet, than on any other factor and that a caliber of .38 or above is effective for personal or home defense.

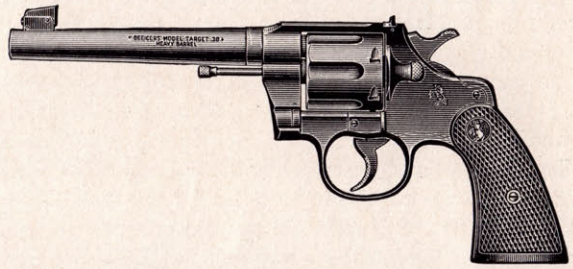
When a pistol or revolver is carried as an emergency sidearm on hunting or exploring expeditions, or for any similar use the maximum possible stopping power is necessary to be sure of protection against large animals. The weapon chosen for this use should be .44 or .45 caliber.

—J. S. H.

Note: We strongly recommend that all who are interested in revolvers, pistols, and their use obtain a copy of the "Textbook of Pistols and Revolvers" by Colonel Julian S. Hatcher, price $4.50 postpaid. This is the standard and authorative book on the subject, covering it in every detail and is also the best training manual on handgun marksmanship. No one can be said to know very much on the subject of handguns until he has studied this excellent work.—T. W.

COLT OFFICERS' MODEL REVOLVER

CALIBERS .22 L.R. AND .38



Six shots, double action, swing out cylinder, blued finish, trigger and back strap checked, stock checked walnut, Patridge or bead sights adjustable for elevation and windage, action super-smooth, hand adjusted, hand adjusted trigger pull.

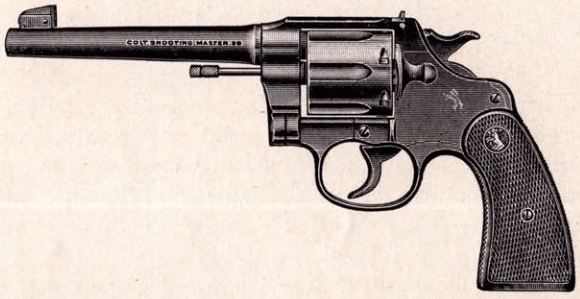
The .38 caliber uses the .38 S & W Special or .38 Colt Special cartridges interchangeably. It can be had with 4, 4½, 5, 6, or 7½ inch standard barrel, weight with 6 inch barrel 34 ounces. Or it can be had in the same caliber with heavy barrel 6 inches long only, weight 36 ounces.

The .22 caliber uses the .22 Long Rifle cartridge, either regular or high speed, has embedded head cylinder, 6 inch barrel only and weighs 38 ounces. Price of all three types **$40.75**

The Colt Officers' Model may be said to be the standard revolver of the world. It is the choice of the vast majority of our best revolver shooters. For example this splendid weapon won every .38 caliber match at the 1935 Camp Perry Competitions. It is the one best revolver for those with ordinary or large size hands.

COLT SHOOTING MASTER REVOLVER

CALIBERS .38, 44 AND .45



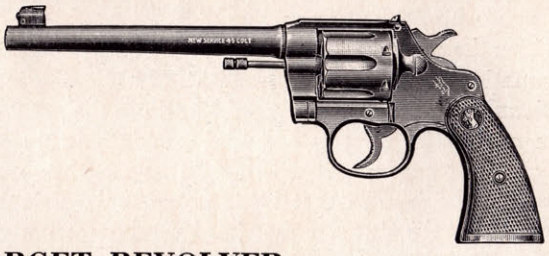
Six shots, double action, swing-out cylinder, blued finish, trigger and back strap checked, stock checked walnut, Patridge or bead sights adjustable for elevation and windage, action super smooth hand adjusted, hand adjusted trigger pull, 6 inch barrels only, weight in .38 caliber 44 ounces.

Calibers .38 Special using in the same arm .38 S & W Special, .38 Colt Special, .38 S & W Special High Velocity and .38/44 S & W Special. Also made for the .44 S & W Special, .45 Colt Automatic and .45 Colt Revolver cartridges. Price **$52.50**

This is the DeLuxe Target Revolver. Heavy for steady holding. Superb in every detail. Also the one best revolver for the heavier .44 and .45 caliber cartridges where real stopping power is desired. A new world's record for the National Pistol Course was recently established with this super-target weapon.

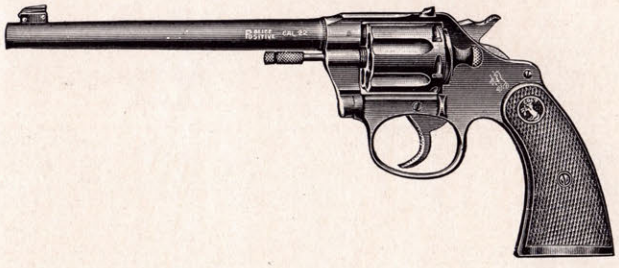
COLT NEW SERVICE TARGET REVOLVER

Six shots, double action, swing out cylinder, blue finish, front and back straps checked, Patridge or bead sights adjustable for elevation and windage, action super smooth hand adjusted, hand adjusted trigger pull. Weight .45 cal. 42 ounces. Length of barrel 6 or 7½ inches. Calibers .44 Special, .45 Colt or .45 Automatic. This is the heaviest revolver built and splendid arm for target or horseback use. Price **$50.00**



COLT POLICE POSITIVE TARGET REVOLVER

CALIBERS .22 L.R. AND .32 COLT POLICE POSITIVE



Six shots, double action, swing-out cylinder, blued finish, trigger and back strap checked, stock checked walnut, Patridge or bead sights adjustable for elevation and windage, hand finished action, weight 26 oz., 6 inch barrel for .22 Long Rifle or .32 Colt Police Positive. Price **$30.00**

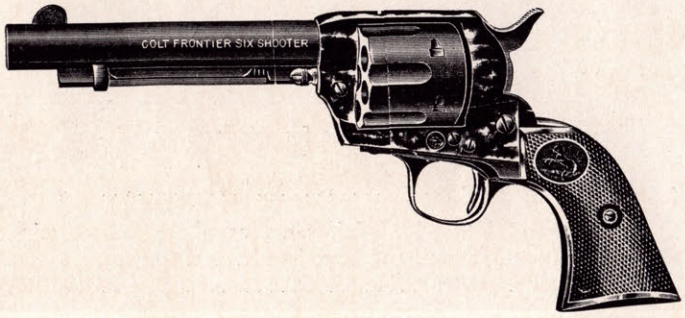
A splendid light revolver for ladies' use or for those with very small hands. A fine revolver for general shooting on fishing and hunting trips where the weight of a larger weapon might be objectionable.

COLT "CAMP PERRY" MODEL, SINGLE SHOT TARGET PISTOL, CALIBER .22 LONG RIFLE

Single action, swing-out barrel, rod ejection, adjustable Patridge or bead sights, blued finish, trigger and back strap checked, stock checked walnut, action hand adjusted, 8 inch barrel, weight 34 ounces, caliber .22 Long Rifle. Price **$40.75**

This single shot pistol has the same superb finish, feel, fit and balance as the Colt Officers' Model Revolver. The best single shot pistol made.

COLT SINGLE ACTION ARMY REVOLVER (FRONTIER MODEL)



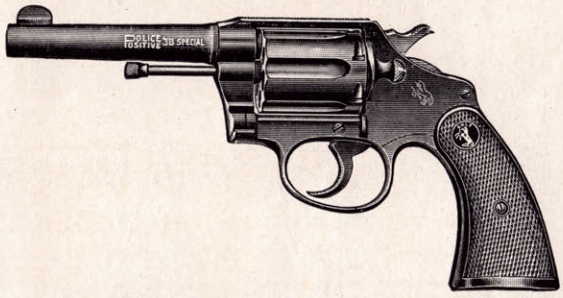
Six shots, single action, solid frame, rod ejection, case hardened frame, blued barrel and straps, stock checked rubber, sights fixed, calibers .32-20, .38 Special, .357 Magnum, 38-40, .44 Special, 44-40 and .45 Colt. Length of barrel 4¾, 5½ or 7½ inches. Weight in .45 caliber with 4½ inch barrel 36 ounces. Price..... **$34.00**

This revolver, originally the standard revolver of the Army, has been in continual demand since 1873. It is preferred by many who "worship at the shrine of the Old West."

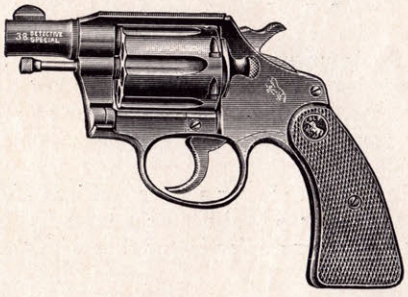
COLT POLICE POSITIVE SPECIAL REVOLVER CALIBERS .38 SPECIAL AND .32-20

Six shots, double action, swing-out cylinder, blued finish, fixed sights, stocks checked walnut, calibers .38 Special and .32-20, barrels 4, 5 or 6 inches, weight with 4 inch barrel 22 ounces. Price..... **$28.50**

A good standard revolver for general purposes or home protection.



COLT DETECTIVE SPECIAL REVOLVER CALIBER .38 SPECIAL



Six shots, double action, swing-out cylinder, blued or nickel plated finish, stocks rounded checked walnut, checked trigger, fixed sights, caliber .38 Special, length of barrel 2 inches, weight 21 ounces. Price..... **$28.50**

A splendid pocket revolver for personal protection.

COLT "WOODSMAN" AUTOMATIC PISTOL
CALIBER .22 LONG RIFLE

Ten shots, self loading, blued finish, stocks checked walnut, grooved trigger, Patridge or bead sights adjustable for elevation and windage (except 4½ inch barrel is adjustable for windage only), caliber .22 Long Rifle, length of barrel 4½ or 6½ inches, weight 27 and 29 ounces.

Price **$32.00**
Extra magazine price **2.00**

A splendid, light, accurate weapon for target shooting and general use for those who profer the automatic pistol. Uses either regular or high speed cartridges with lubricated lead bullets.

COLT GOVERNMENT MODEL AUTOMATIC PISTOL
CALIBER .45

Capacity of magazine 7 cartridges, length of barrel 5 inches, stocks checked walnut, trigger and arched housing checked, rear sight adjustable for windage by driving over, finish blued, weight 39 ounces. Price.. **$36.75**
Extra Magazine **1.25**

"National Match" Model, same as above, but specially selected with action hand honed and velvet smooth, fixed sights. Price **$40.75**

"National Match" Model, same as above, but with Stevens adjustable sight, front sight fixed, ramp type with serrated face, rear sight adjustable for both elevation and windage. Price **$44.25**

This is the standard service handgun of the United States Army. It uses the .45 Colt Auto. cartridge. The first two models with fixed sights are permitted in the National Pistol Matches and other strictly military pistol matches.

COLT "ACE" AUTOMATIC PISTOL
CALIBER .22 LONG RIFLE

Capacity of magazine 10 cartridges, length of barrel 4¾ inches, stock checked walnut, trigger and arched housing checked, finish blued, action hand finished, rear sight adjustable for elevation and windage, weight 38 ounces. Price **$40.75**
Extra Magazine **2.50**

This is a weapon for the economical training of individuals and troops who are armed with the .45 caliber Colt Government Model Automatic Pistol. The .22 Long Rifle Cartridge being much less expensive and fully as accurate as the .45 Colt Cartridge, training can be had much more economically and a far greater amount of shooting can be indulged in with this "ACE" pistol.

It can be used also under many conditions where one would not wish to use the .45 caliber weapon and all shooting with it tends to make one a far better shot with the Government model.

COLT "SUPER .38" AUTOMATIC PISTOL AND "SUPER MATCH" MODEL

Caliber .38 Automatic

Same appearance and type as the Colt Govt. Model Auto. Pistol. Capacity of magazine 9 cartridges, length of barrel 5 inches, stock checked walnut, trigger and arched housing checked, finish blued, fixed sights, weight 39 ounces, uses the .38 Automatic cartridge. Price..... **$36.75**
Extra Magazine **1.25**

"Super Match" Model. Same as above, but with hand finished action. Price..... **$40.75**

"Super Match" Model. Same as above, but with hand finished action and Stevens rear sight adjustable for elevation and windage..... **$44.25**

This pistol uses the .38 Automatic cartridge, having a muzzle velocity of 1300 foot seconds. It has a flatter trajectory than the .45 cal. Govt. Model and is thus a better long range arm. Its bullet also has greater penetration.

OTHER COLT REVOLVERS AND PISTOLS

For Police and Home Use

Official Police Revolver. Calibers .22 Long Rifle, .32-20 Win. or .38 Special. Fixed sights. 4, 5 or 6 inch barrel (6 inch only in 22 L.R.)..... **$30.00**

Police Positive Revolver. Calibers .32 S & W Long or .38 S & W. Fixed sights. .22 cal. 2½, 4, 5 or 6 inch barrel. .38 cal. 4, 5 or 6 inch barrel..... **$27.00**

Bankers Special Revolver. Calibers .22 L.R. or .38 S & W. Fixed sights, 2 inch barrel..... **$27.00**

Pocket Positive Revolver. Caliber .32 S & W Long. Fixed sights. 2½, 3½ or 6 inch barrel.. **$26.50**

New Service Revolver. Calibers .38 Special, .38/44 S & W Special, .38/40 Win., .44 Special, .455 Ely, .45 Colt or .45 Automatic. Fixed sights. Barrels .38 cal. 4, 5 or 6 inches. Other calibers 4½, 5½ or 7½ inches.. **$34.00**

Pocket Model Automatic Pistol. Caliber .25 Auto. Fixed sights. 2 inch barrel..... **$17.00**

Pocket Model Automatic Pistol. Calibers .32 and .380 Auto. Fixed sights. 3¾ inch barrel.... **$20.50**

SPECIAL FEATURES ON COLT ARMS

Engraving, Grade A **$15.00,** Grade B **$25.00,** Grade C **$45.00**

Hand finished actions, all models..... **$ 5.00**

Checking front or back straps on all revolvers other than Single Action Army..... **$ 2.50**

Checking front or back straps, Single Action Army ..... **$ 3.00**

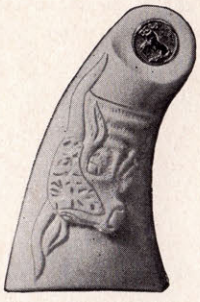
Checking front strap, Woodsman, .25, .32 or .380 Auto..... **$ 3.00**

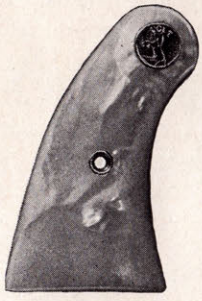
Checking back strap, Woodsman, .25, .32 or .380 Auto. ..... **$ 2.50**

Checking front strap, Ace, Super .38 or .45 Auto... **$ 3.50**

Checking back strap, Ace, Super .32 or .45 Auto... **$ 2.00**

PEARL AND IVORY STOCKS FOR COLT ARMS





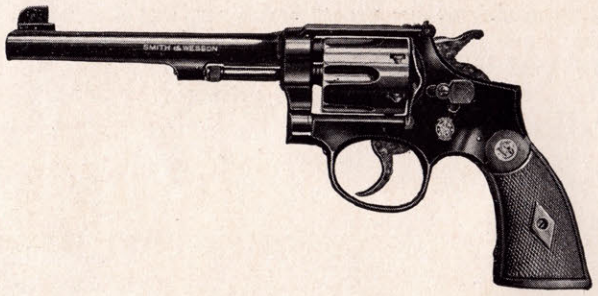
Models	*Pearl* Plain	*Pearl* Carved	*Ivory* Plain	*Ivory* Carved
New Service**	$18.75	$22.50	$10.50	$19.50
New Service Target	18.75	22.50	10.50	19.50
Shooting Master	18.75	22.50	10.50	19.50
Officers Model Target	11.50	15.25	9.00	17.75
Official Police	11.50	15.25	9.00	17.75
Police Positive Special	8.00	11.75	8.75	17.50
Detective Special**	8.00	11.75	8.75	17.50
Police Positive	8.00	11.75	8.75	17.50
Bankers Special**	8.00	11.75	8.75	17.50
Police Positive Target	8.00	11.75	8.75	17.50
Pocket Positive	6.25	10.00	8.75	17.50
Single Action Army	17.25	21.00	12.50	21.25

Models	*Pearl* Plain	*Pearl* Carved	*Ivory* Plain	*Ivory* Carved
Single Shot Pistol (Camp Perry)	$11.50	$15.25	$9.00	$17.75
.45 Automatic (Govt. Model)	15.00	*	8.50	17.25
.45 National Match (Govt. Model)	15.00	*	8.50	17.25
Super .38 Automatic	15.00	*	8.50	17.25
"Super Match" .38 Automatic	15.00	*	8.50	17.25
.380 Automatic Pistol	7.50	11.25	8.00	16.75
.32 Automatic Pistol	7.50	11.25	8.00	16.75
.25 Automatic Pistol	6.00	9.75	6.25	15.00
Woodsman .22 Auto. (Target Model)	*	*	*	*
Woodsman .22 Auto. (Sport Model)	*	*	*	*
Ace .22 Auto. Pistol	15.00	9.75	8.50	17.25

*Not furnished.
**These models furnished with both round and square type stocks. Specify type required.

Note: Please note that these prices do not include the U. S. Excise Tax of 10%. This tax does not apply when stocks are ordered separately, but it is applicable when these stocks are fitted to a new arm. The above quotations are subject to change without notice. Only the highest grade pearl and ivory are used and the Colt silver medallion trade mark of a Rampant Colt is set in them.

SMITH & WESSON MILITARY AND POLICE TARGET REVOLVER (K-MODEL)
CALIBER .38 S & W SPECIAL



Solid frame, swing-out cylinder, number of shots 6, length of barrel 6 inches, finish blued, stock checked circassian walnut, grooved straps and trigger, trigger pull adjusted to 3 to 4 pounds, Patridge sights adjustable for elevation and windage, weighs 32¼ ounces. Uses the .38 S & W Special cartridge. Price **$38.00**

This famous revolver has been used for 30 years always with the best results. It is an extremely accurate and durable target or outdoor revolver, with exceptional workmanship, smoothness of action and finish and durability.

It is the choice of many expert shooters and particularly by those who have rather small hands to whom its type of grip is best adapted.

SMITH & WESSON "K-.22" TARGET REVOLVER
CALIBER .22 LONG RIFLE

Same as above .38 caliber revolver, but for the .22 Long Rifle cartridge with recessed chambers, weight 35 ounces. Price **$38.00**

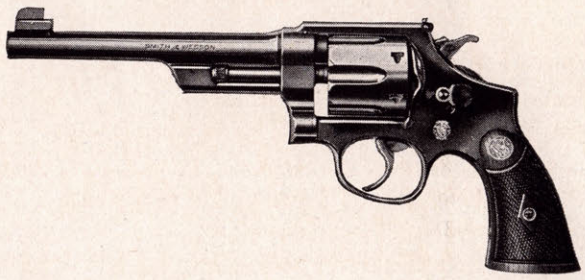
The first full sized, high grade .22 caliber revolver made, and a superb weapon in every way. Exceptionally accurate, durable, and finely finished. Suitable for both regular or high speed cartridges.

SMITH & WESSON .22/32 TARGET REVOLVER
CALIBER .22 LONG RIFLE

Light solid frame, swing-out cylinder, 6 shots, 6-inch barrel, blued finish, stocks checked Circassian walnut, Patridge sights adjustable for elevation and windage, weight 23 ounces, caliber .22 Long Rifle. Price **$35.00**

A splendid small revolver for ladies or those with small hands. An exceptionally accurate weapon that has many records to its credit.

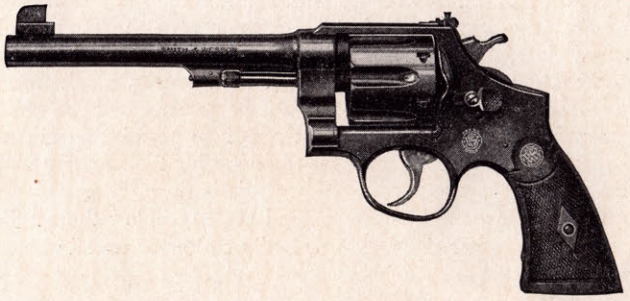
SMITH & WESSON .38/44 OUTDOORSMAN'S REVOLVER
CALIBER .38 S & W SPECIAL AND .38/44 S & W SPECIAL



Heavy .44 Military Target frame, swing-out cylinder, 6 shots, 6½ inch barrel, blued finish, stocks checked Circassian walnut, trigger and straps grooved, Patridge sights adjustable for elevation and windage, weight 41¾ ounces, for the .38-S & W Special, and .38/44 S & W Special cartridges interchangeably. Price **$45.00**

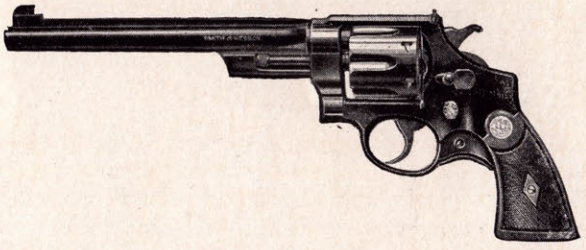
A heavy .38 caliber revolver for steady holding and also heavy and strong enough to successfully use the .38/44 S & W Special high velocity cartridge.

SMITH & WESSON .44 TARGET REVOLVER



Heavy solid frame, swing-out cylinder, 6 shots, 6½ inch barrel, blued finish, stocks checked Circassian walnut, Patridge sights adjustable for elevation and windage. weight 37¾ ounces, for the .44 S & W Special cartridge.
Price **$45.00**

SMITH & WESSON .357 MAGNUM REVOLVER



Caliber: ".357" (Actual bullet diameter .38 S & W Spec.).
Barrel: Length optional; 8¾ inch maximum, 3½ inch minimum. Finely checked rib and heavy recessed extractor rod lug.
Frame: ".357" Magnum with finely checked top strap matching barrel rib. Front and rear straps S & W grooving.
Cylinder: Heat-treated chrome-nickel steel. Recessed head space and patented burnished chamber walls.
Sights: Optional: choice of any standard target sights.
Sight Base: With 8¾ inch barrel. 10 inch maximum permissible in "Any Revolver Matches."
Weight: With 8¾ inch barrel, 49 oz.; 6½ inch barrel, 47 oz.; 3½ inch barrel, 44 oz.
Hammer: Full surface of thumb piece checked to prevent slipping in rapid fire. Concentric relief cuts on sides. Hammer fall weighed and timed for uniform ignition and least disturbance of arm.
Trigger: S & W grooving. Glass-hard point engaging hammer notch.
Trigger Pull: Single action 3¾ to 4 lbs. Double action, 10 lbs.
Stocks: The MAGNA stock is now standard equipment for the ".357" Magnum Revolver.
Ammunition: S & W ".357" Magnum, .38/44 S & W Special, .38 S & W Special, .38 S & W Special Hi Velocity, .38 S & W Special Super-Police, .38 S & W Special Mid Range, oil interchangeably. Price..... **$60.00**

OTHER SMITH & WESSON REVOLVERS

FOR POLICE AND HOME USE

.44 Military. Calibers .44 Special, .44 Russian, .44-40 Win., or .455 Ely. Fixed sights. 5 or 6½" barrel **$37.50**

1917 U. S. Army. Caliber .45 Auto Pistol and .45 Auto Rim. Fixed sights. 5½" barrel..... **$37.50**

.32 Hand Ejector. Caliber .32 S & W Long. Fixed sights, 3¼, 4¼, or 6 inch barrel..... **$30.00**

.32 Regulation Police. Caliber .32 S & W Long. Fixed sights 3¼, 4¼ or 6 inch barrel..... **$32.00**

.32 Safety Hammerless. Fixed sights. 2 or 3" bbl. **$28.00**

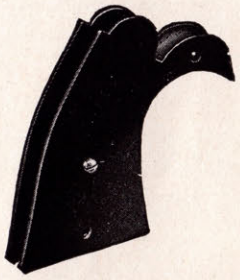
.38 Regulation Police. Caliber .38 S & W. Fixed sights. 4 inch barrel..... **$32.00**

.38 Military & Police, Round Butt. Caliber .38, Special Fixed sights. 4, 5, or 6" barrel..... **$32.50**

.38 Military & Police, Square Butt. Caliber .38. Special. Fixed sights. 4, 5, or 6" barrel..... **$33.00**

.38/44 Heavy Duty. Calibers .38 Special and 38/44. S & W Special Hi-Speed. Fixed sights. 5" barrel **$37.50**

WESSON GRIP ADAPTER



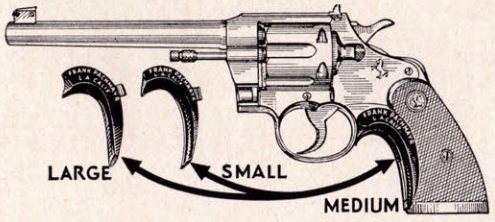
The Adapter is of simple construction; two plates, two screws and a rubber filler block. The installation takes but a moment, and requires no change or alteration of the arm. Remove the stocks, place one plate in position, put the rubber filler block in place at the rear of the trigger guard, put the second plate on, and secure with the filler block screw. Replacing the stocks and fastening them with the long stock screw accompanying the Adapters completes the operation.

The Adapter has been designed with a deep block to accommodate the small hand; it will be noticed that the block screw has been placed sufficiently high to permit material to be removed if the block proves too deep for the shooters with hands above average size. When this is done, care must be taken to allow the block to extend slightly below the retaining pieces; otherwise a sore or badly calloused middle finger may result.

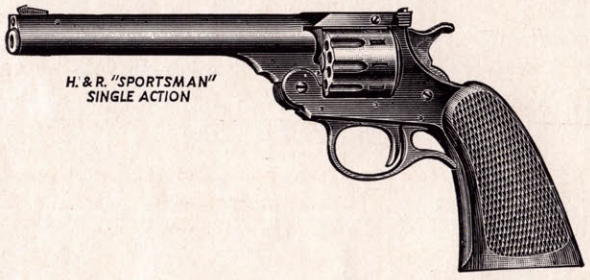
The Wesson Grip Adapter is furnished for .38/44 and .45, .38 Military and Police, and K-.22 Smith & Wesson hand Ejector models. Price, including long stock screw **$2.50**

PACHMAYR SURE GRIP ADAPTER

Made for all the revolvers listed here, in three sizes, large, medium, and small. Price..... **$2.00**



HARRINGTON & RICHARDSON SINGLE ACTION SPORTSMAN REVOLVER
CALIBER .22 LONG RIFLE



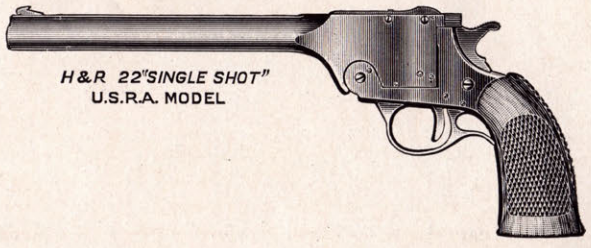
Tip up action, 9 shots, 6 inch barrel, weight 30 ounces, light hand adjusted trigger pull, adjustable sights of Patridge type. Made with six types of stocks, the No. 4 type being the standard and the most popular. Price... **$21.00**

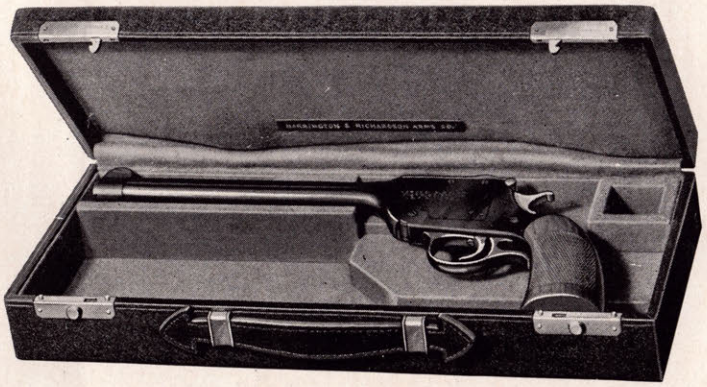
This is an exceedingly satisfactory .22 caliber revolver at a moderate price. Many shooters think that with the No. 4 stock it has the best grip of any revolver ever made. Since its introduction it has been a most successful arm. Many of our leading shooters prefer it and a number of records have been made with it.

HARRINGTON & RICHARDSON SINGLE SHOT PISTOL
U.S.R.A. MODEL, CALIBER .22 LONG RIFLE

Tip up action, barrels either 7, 8, or 10 inch, weight with 7″ barrel—28 ounces; with 10″ barrel—31 ounces. Adjustable trigger pull, adjustable sights of Patridge type. Made with six types of stocks, the No. 4 being the standard and most popular. Price with 7, 8 or 10 inch barrel **$30.00**

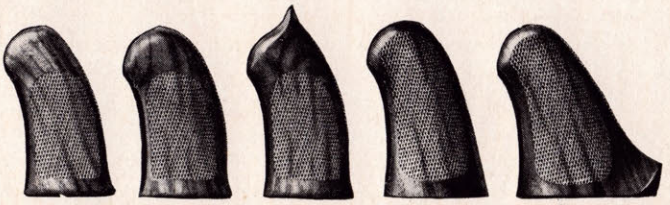
This is the single shot pistol preferred by most of our target shooters. It holds the "Free Pistol," "Intermediate," 50 yard "National Novice," and 20 yard "National Novice" records.





Special Shooters' Case for pistol **$5.00**

Different stocks furnished for H & R Revolvers and Pistols. Any style desired furnished. Extra stocks, per pair **$2.00**



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OTHER HARRINGTON AND RICHARDSON REVOLVERS

Sportsman Revolver. Same as the single action previously described, but "double action." .22 cal. **$21.00**

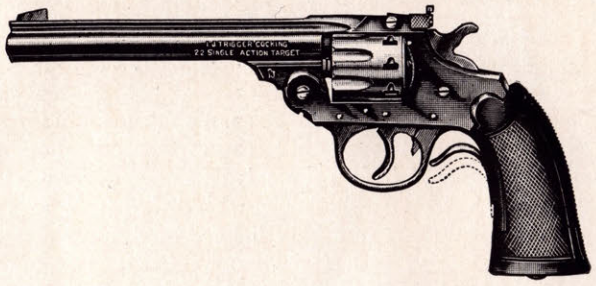
.22 Special. .22 L.R. or .22 W.R.F. 6″ barrel.... **14.25**

Expert. .22 L.R. or .22 W.R.F. 10″ barrel.... **15.00**

No. 922. Solid frame. .22 L.R. 6″ barrel..... **9.25**

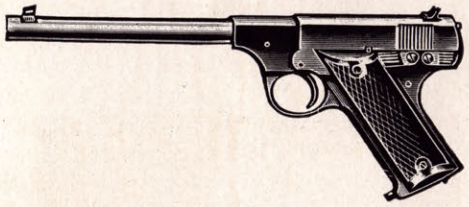
Trapper Model. Solid frame. .22 L.R. 6″ barrel **8.75**

IVER JOHNSON TRIGGER COCKING .22 SINGLE TARGET REVOLVER



This revolver has an entirely new design of trigger. One pull on the trigger, like the pull on a double action revolver, cocks the revolver ready to fire. It will not discharge on this first pull. The second pull, exactly like the pull on a single action revolver, light and without creep, releases the hammer. Thus cocking for single action shooting is very simple and rapid, and the position of the hand is not changed from shot to shot. This revolver is chambered for the .22 Long Rifle cartridge, eight shots, and has counterbored chambers. The sights are 3/32″ Patridge sights, with adjustment for both elevation and windage. Adjustable finger rest, 6″ ribbed barrel, weight 24 ounces. Price..... **$18.25**

HI-STANDARD AUTOMATIC PISTOL



Length over-all 10¾ inches, weight 33 ounces. Also made with 4½ inch barrel at same price.

Price **$20.00**

Extra magazines, each..... **1.50**

Shoots the .22 Long Rifle cartridge, either high speed or regular. 6¾ inch barrel. Magazine capacity 10 shots. Blued finish. Positive safety. Takedown. Patridge front and open rear sights. Grips of hard rubber, checkered.

OTHER PERTAINING EQUIPMENT

In addition to the revolver or pistol itself, the hand gun shooter requires other equipment as listed below for which we refer you to the proper section in this catalogue.

Holster.
Cartridge belt.
Revolver case.
Cleaning rod.
Cleaning materials.
Spotting scope or binoculars.

Section VII

Shotguns

Introduction by Major Charles Askins

WHAT shotgun do we need? That depends a lot on how much shotgun shooting we have done. If a man has been shooting a shotgun for twenty years, if he has become an expert in its use, no advice from us will do him any good because he knows what he needs and wants much better than we could tell him. Therefore, what we have to say should be taken as being more particularly applicable to the novice or the man with moderate skill.

Shotguns are desired for wing shooting, and for those games such as Trap and Skeet shooting. We have a very wide selection of shotguns in this country—all bores, grades, styles, and with many dimensions of stock. The selection as to bore is governed more or less by the weight we are willing to carry, and in a minor degree by the availability of the ammunition. Almost all dealers carry 12, 16, and 20 gauge shells in stock, but often do not have other sizes. These odd bores are for specialists, and you may not be one. The 12 gauge has the greatest development of any shotgun bore in this or other countries, the greatest range in weights, and the greatest variety of ammunition available. Next comes the 20 gauge, with the 16 a fine in between gun, well adapted to every purpose.

What about the grade? The higher grade, carefully bored and regulated shotguns, as a rule, will shoot better and evener patterns and are more durable. But modern materials and modern precision methods of manufacture have done wonders for the cheaper guns in recent years, and I would suggest that it might be well for the beginner to start in with one of the lower grade arms, costing, say, $39.00 to $75.00. Such a gun will last him for years, and certainly until he has developed a great deal of skill. When he has become an expert he will have his own ideas, and will certainly wish something different and probably better.

What stock dimensions are required? This problem is continually being placed before the man who is supposed to know something about shotguns. Frequently requests for information are accompanied by statements as to the shooter's height, length of arms, breadth of face, etc. Such queries are almost certain to come from novices since a veteran shot knows his stock measurements, and no advice from anybody would have any effect on him. Mr. Stanley Duncan, who knows guns about as well as anyone in England, says that it is all a mistake to believe that a marksman cannot hit anything with his gun unless it is stocked just so; but, in fact, he can do at least fair shooting with any kind of a stock. This being true, and I believe it is, then the stock for any of us who has not developed rigid notions on the subject, is simply a normal stock, sometimes called the standard stock. Such a stock would be about 14″ long, with 2½″ drop at the heel, and 1½″ or 1⅝″ drop at the comb. Anybody can shoot well with such a stock, and about everybody has at one time or another. This does not mean that you are not to have your gun stocked to order if you know just what dimensions will fit you. If you do not, shoot the standard stock until you learn.

Usually, in accordance with his experience, one man prefers a single barrel gun (repeater or automatic) believing that he cannot aim well over two barrels. Another is a confirmed double barrel man who thinks he knows precisely where he holds with the twin tubes and is not certain over the narrow barrel. That is all right, every man to his choice—why not? I think the finest looking and best balanced shotguns are double barrels, and it seems to me that the two barrel gun is gaining ground. That was not true in the day of unlimited bags of wild fowl, as the repeater or automatic assured the largest kills. In these days of three-shot magazines the repeater is just as sportsmanlike as any double. About automatics, if such an arm is chosen to bag more game, that is running contrary to the creed of American game bird shooting. There is no particular horse sense in selecting a gun with which ten birds can be killed in thirty minutes, provided ten birds are all you are allowed for the entire day. But if a man can shoot better with an automatic and kill more birds with a given number of shells, then that is another story. One advantage of the double gun which should receive some consideration is that the two barrels can be bored with different degrees of choke, so that the shooter is better fitted for short or long shots.

A lot of special features are built into shotguns, all of them having merit, but none of them absolutely essential for effective work. The self-ejectors are worth while, particularly in a hot corner in duck shooting. In upland shooting a man rarely has a chance to fire more than two barrels in succession, and he then has plenty of time to remove the spent cases. The single trigger is a convenience, and in cold weather when shooting in gloves it is an advantage. The other side is that no single trigger that was ever made gives us instantaneous selection of barrels. The beavertail forend to my mind quite destroys the beautiful lines of a fine double gun, but I rather like one on a 20 bore where the slim barrels do not afford a firm grip by the forward hand. The ventilated rib might prevent heat waves from obstructing the vision in trap shooting,

but otherwise it adds nothing except weight. We have inherited the pistol grips from the rifleman, fine on a rifle, but no whit better than the straight grips on a shotgun. Neither is the English "cast-off" adapted to the American style of shotgun aiming.

Choke. Almost no modern shotguns have a true cylinder bore from chamber to muzzle. True cylinder bores seldom pattern evenly. The bore of the modern shotgun is slightly constricted, made to taper to a slightly smaller diameter at the muzzle, which constriction is called the "choke". The greater the constriction up to a certain point, the denser will be the pattern, that is the smaller the circle which will contain all the pellets or the larger proportion of the pellets in the load at a certain distance. The standard for patterning a gun, or for describing the degree of choke, is a 30″ circle at 40 yards. The various chokes are designated as follows: *Full choke* is supposed to shoot 70% of the pellets in a charge into a 30″ circle at 40 yards—some makers claim 80%. *Three-quarters choke* is supposed to make a 65% pattern, and often does a little better. The *Modified* or *Half Choke* is designed to pattern 60%. The *Quarter Choke* patterns about 55%, and the *Improved Cylinder* should pattern about 50% of its load in the 30″ circle at 40 yards. The new *Skeet Choke* gives the widest pattern that is regular and even; that is, it does not bunch a lot of pellets in one part of the 30″ circle and very few pellets in another portion.

Smaller sizes of shot are used for small birds than for large ones. The largest sizes are needed for the energy and penetration required to kill the larger birds. Theoretically, it takes about three pellets to kill a bird. In an ounce of No. 8 shot which is used on birds like snipe there are 409 pellets, but in an ounce of No. 4 shot used for ducks there are only 136 pellets. A good 70% pattern of No. 8 shot means about 286 shot evenly distributed over a 30″ circle, and there will be no place in that pattern where a snipe would not be struck by about three or four pellets. The same pertains with No. 4 shot on the very much larger body of a duck. A full choke gun will give us this 70% pattern at about 40 yards or a little further, a modified choke at perhaps 35 yards, and an improved cylinder at about 30 yards. Thus, the closer the choke the greater the sure killing range, generally speaking.

But we must also consider the probability of hitting. A full choke patterns about 70% of its hits in a 30″ circle at 40 yards, or a 15″ circle at 20 yards. There are mighty few shooters who can shoot well enough to hold their pattern on flying birds at those distances. A great many more birds are shot at shorter distances than are shot at 40 yards. Most beginners think that they need a full choke gun. As a matter of fact a full choke is just what the beginner or the ordinary shot does not want. He should have a choke that will distribute his pattern over a larger circle, thus giving him a much greater chance of hitting his bird at the medium distances where he will get most of his shots. For almost everyone the most sensible chokes for a double gun are an improved cylinder for the right barrel which is fired first at birds at short range, and a modified, (often called half choke) for the left barrel which is fired second when the birds have gotten a little further off. For a single barrel gun or a repeater or automatic it would be best to have a half choke (modified).

Barrel Length: Just now there is a tendency towards short barrels. This is on the ground of superior quickness of getting on the mark, combined with lighter weight, supplemented by the faith that a short barrel shoots precisely the same as a long barrel, provided the choke is the same. Some of this tendency towards short barrels is good, provided it is not overdone. For upland birds or Skeet where the shooting is fast, short barrels are indicated. For ducks and the trap where steady swing is desired they should be longer. For a duck or trap gun the barrels should be 28″ or 30″, or for trap alone perhaps even 32″. For upland game and Skeet 28″ or 26″ barrels are good. Generally speaking, the smaller the gauge the shorter may the barrels be with advantage, 12 gauge 28″ or 30″, 16 gauge 26″ or 28″, and 20 gauge 26″ are a good compromise. (Note: No company makes 24″ barrels which are undesirably short.)

Duck Guns: The 12 gauge weighing around 8 pounds, 30″ barrel, full choke, or right barrel modified and left full choke, is the common duck gun. Old custom seems to decree full choke for ducks, but to my mind there is no wisdom in selecting a gun which will pattern in a 24″ to 30″ circle at 40 yards unles a wealth of experience has shown that you can hit with that gun. One of the very best guns I ever owned was modified in both barrels, and I would select that gun today for ducks. Also the 16's and 20's are by no means out of it for ducks. Everything that has been said as to to the boring of the 12 gauge also applies to the 16 and 20 gauges. The modified choke is only about 3 yards behind the full in theoretical sure killing distance; the 16 is only about that much behind the 12 gauge; and the 20 is only about 3 yards behind the 16 gauge. Therefore, you can figure it out that the modified 20 is only something like 9 yards behind the full choke 12, which is not much to pay for the lightness and handiness of the 20.

The Upland Gun: By upland gun we mean one for grouse, quail, plover, snipe, woodcock, and all upland birds as distinguished from ducks. There is no need for an upland gun weighing over 7¼ pounds, or with barrels longer than 28″ or shorter than 26″. The 16 and 20 gauges are becoming more popular than the 12 gauge, but the 12 gauge is always good; what it loses in handiness being made up in the heavier charge of shot it fires. On the whole I think that the improved cylinder is the most useful choke ever placed in an upland gun. The man who can kill one bird in three with a modified choke can

bag two of the three with an improved cylinder. The next degree of choke is the quarter patterning a large proportion of the pellets in a 20″ circle at 20 yards, 30″ at 30 yards, and 40″ at 40 yards. This is a good choke for the second barrel. One degree of choke kills as well as the other, except that you miss with one and hit with the other.

Skeet Guns: Skeet ranges are short, the average distance at which birds are taken being 20 to 22 yards. The shooting is very quick. The sharpness of competition has led the skeet shooter to study his gun, the charge, and the degree of the spread. No. 9 shot is usually used for skeet. It has been found that generally speaking the need for speed indicates short barrels, about 26″ being a good minimum. The choke should be very slight so as to give a large pattern at short range, and special skeet boring, a slight modification of the improved cylinder, has been introduced. The typical skeet gun of today is a 12, 16, or 20 with 26″or 28″ barrels, special skeet boring, and beavertail forend. As a matter of fact such a gun makes an excellent upland gun as well, particularly for eastern quail.

Trap Guns: The trap gun is very highly specialized. It has long barrels, is closely choked, rather high shooting, and has a long, straight stock. It is shot by the most accurate gun pointing and aiming class that ever lived. It and the men who shoot it controvert all theories about short barrels being fully as effective as long barrels. Trap guns are comparatively heavy, weighing from 8 to 9 pounds, with 30″ or 32″ barrels. The chokes were formerely full, but are more apt to be three quarters today. The load is quite uniform, being either three or three and a quarter drams of powder and 1¼ ounces of No. 7½ shot. For 16 yard rises the best pattern is thrown by a modified choke, but the trap shooter has to keep in mind that he may be set back in yardage at any time. Trap guns have stocks from 1¼″ to ½″ longer than the marksman would use afield, because he is permitted to place his gun to his shoulder before the bird appears, and long stocks further accuracy and steadiness. Stocks are a bit straight, since the gun shooting a trifle high, say 8″ high at 40 yards, has been found an advantage. The trap shooter uses any device that he thinks will help him, regardless of the weight it might add to his piece, hence raised and ventilated ribs, beavertail forends, Monte Carlo combs, and cheek pieces are often seen. Anything is used that will lead to more birds being hit, because it takes a hundred straight to win matches.

Effective Range: Now a word about the maximum ranges of the different bores on ducks. It is hardly possible to give the ranges for upland guns because the boring and loads vary so much. At one time I made a serious effort to determine the ranges of duck guns of from 10 to 20 gauge. I shot at the profile of a duck a bit reduced in size to what was supposed to be the naked body of the bird. Where the gun failed to put three pellets of No. 6 shot on the body of the bird the gun was said to have been "stopped." More than one trial was given at the maximum range so as to obviate flukes. All guns were full choked, and were shot with the best loads obtainable. Shooting began at 40 yards, and the gun was moved back a yard at a time until it was stopped by failing to throw the required pattern of three pellets on the duck:

SUMMARY

20	gauge	1	ounce,	No.	6	shot.	Stopped	at	45	yards
16	"	1⅛	"	"	"	"	"	"	48	"
12	"	1⅛	"	"	"	"	"	"	50	"
12	"	1¼	"	"	"	"	"	"	54	"
12	"	1⅜	"	"	"	"	"	"	58	"
10	"	1⅝	"	"	"	"	"	"	65	"

CHARLES ASKINS.

SHOTGUN CHOKES

The following table gives the names that are used to designate the various chokes, and it will be noted that in some instances the same choke has two names. Set opposite the names are figures which state the percentage of pellets in the shell which will strike within a 30 inch circle at a distance of 40 yards. The pellets are not only supposed to strike within the circle, but to be evenly distributed within the circle—a most important point to remember.

Full choke	70%
Three quarters choke, or Improved modified choke	65%
Half choke, or modified choke	60%
Quarter choke	55%
Improved cylinder bore, or Cylinder bore *	50%

In addition to the above certain "skeet" chokes have been developed. Skeet birds are broken at an average distance of from 20 to 22 yards, and the skeet choke gives the widest effective even distribution of pellets at that distance.

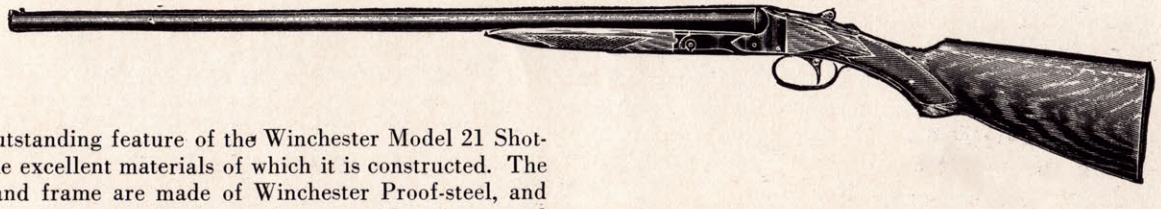
No gun manufacturer can absoluteley guarantee that any choke will give perfect results, that is distribute evenly a certain percentage of pellets in a 30″ circle at 40 yards. However, the chokes stated for all shotguns listed in this catalog will closely approximate the percentages above listed when good American machine loaded shotgun shells are used. Some makes of shells and some sizes of shot will either increase or decrease the percentages given, but the actual results of an individual gun cannot be accurately foretold unless such gun has been tested.

* We believe it is correct to state that no manufacturer makes an absolutely true cylinder bore barrel, which means a barrel with the same diameter inside from breech to muzzle, unless such a barrel is made on special order. All cylinder bore barrels have a slight constriction at the muzzle, such constriction being necessary to make the barrel pattern evenly, that is not bunch—a lot of shot in one portion of the 30″ circle with few shot in other portions.

—Winchester Shotguns—

The outstanding features of Winchester shotguns have always been excellence of materials used, insuring durability as well as safety, complete interchangeability of parts, and excellence of patterns. In these respects their product is unexcelled. The Winchester pump gun has attained a tremendous and justifyable reputation for excellence, Of late years they have been paying increased attention to balance, beauty of outline, and fit and feel of stocks.

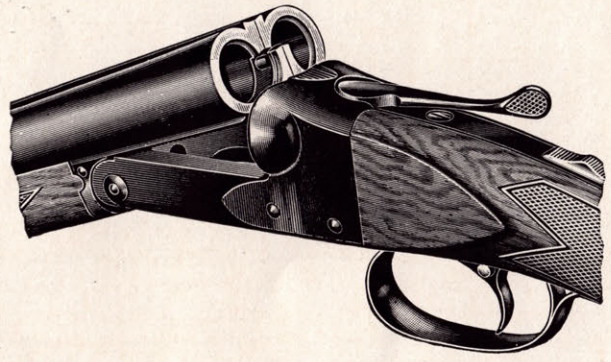
WINCHESTER MODEL 21, DOUBLE BARREL HAMMERLESS SHOTGUN



The outstanding feature of the Winchester Model 21 Shotgun is the excellent materials of which it is constructed. The barrels and frame are made of Winchester Proof-steel, and the gun has been assembled in such manner that the special heat treatment of these parts have not been disturbed. This steel has a tensile strength of 115,000 pounds per square inch —more than twice the strength of the usual barrel steel used in shotguns. A standard gun was fired two thousand rounds with proof cartridges giving a pressure of 7½ long tons, and afterwards showed no looseness whatever. No other double shotgun in the world would successfully withstand one tenth of such a test. When Winchester decided to manufacture this gun they started from scratch, investigated every little detail by modern scientific methods and modern instruments, and made many slight changes from conventional design which were indicated as being desirable as a result of the investigation. Nothing has been left undone to make this gun the best that it is possible to produce. Only a factory with a long knowledge of gun manufacture, and every facility, including an up to date laboratory in charge of skilled metallurgists could have undertaken it.

The Winchester Model 21 Shotgun is made in 12, 16, and 20 gauges, and in three grades—"Standard," "Trap," and "Custom Built." In each grade certain specifications are optional, and certain come as extras.

WINCHESTER MODEL 21 SHOTGUN—STANDARD GRADE



Barrels: All standard grade barrels have matted rib and are furnished in the following lengths:

12 Gauge—26, 28, 30, or 32 inches.
16 Gauge—26, 28, or 30 inches.
20 Gauge—26, 28, or 30 inches.

All lengths are furnished in choice of full, improved modified, modified, improved cylinder, cylinder bore, or Winchester Skeet Chokes. Lengths and choke combinations not listed in table of guns carried in stock shown below, are furnished without extra charge but on special order only which is non-cancellable. No order can be accepted for special requirements of pattern guarantee. Extra sets or barrels can be furnished.

Stock: Pistol grip stock with fluted comb and fore-end of standard grade walnut, both checkered. Fitted with hard rubber butt-plate. Standard grade stocks are made to dimensions given below and of standard grade walnut.

Standard Grade Dimensions

	12 Ga.	16 Ga.	20 Ga.
Length	14″	14″	14″
Drop at Comb	1 9/16″	1½″	1 9/16″
Drop at Heel	2½″	2 7/16″	2⅜″
Pitch for 30″ Barrels	2½″	2½″	2½″
Circumference of Grip, about	4⅜″	4⅜″	4⅜″

Stocks made to customer's dimensions on special order only at an additional charge. Beavertail fore-end can be furnished at extra charge. All Model 21 Standard Grade Shotguns are furnished with automatic safety unless expressly specified otherwise. Non-automatic safety or no safety will be furnished, if so specified, at no extra charge.

Sights: No. 81-A (monel metal) Front sight. If customer desires and so specifies No. 81-D (chromium finish) Front Sight with No. 94-B (chromium plated) Middle Sight will be furnished at no extra charge.

Shell: All guns chambered for 2¾ inch shells.

Weight: 12 gauge, 30 inch barrels, about 7¼ pounds. 16 and 20 gauges, 28 inch barrels, about 6½ pounds. For each 2 inches of barrel length above or below standard given, add or subtract approximately 2 ounces per gun.

Details and Prices of Guns Carried in Stock
Order by Symbol Number
Standard Grade

Symbol number	Barrel length	Choke		Gauge	Price each
		Right	Left		
Double Trigger, Non-Selective Ejection					
G2103B	30″	Modified	Full	12	**$72.45**
G2143B	28″	Modified	Full	16	**72.45**
G2172B	28″	Modified	Full	20	**72.45**
Double Trigger, Selective Ejection					
G2113B	30″	Modified	Full	12	**86.10**
G2153B	28″	Modified	Full	16	**86.10**
G2182B	28″	Modified	Full	20	**86.10**
Single Trigger, Non-Selective Ejection					
G2123B	30″	Modified	Full	12	**86.10**
G2163B	28″	Modified	Full	16	**86.10**
G2192B	28″	Modified	Full	20	**86.10**
Single Trigger, Selective Ejection					
G2133B	30″	Modified	Full	12	**99.75**
G2162B	28″	Modified	Full	16	**99.75**
G2197B	28″	Modified	Full	20	**99.75**

EXTRAS—STANDARD GRADE

Add to Price of Gun.

Extra set of Barrels without fore-end, purchased with a new gun:	
Non-Selective Ejection	**$44.00**
Selective Ejection	**55.00**
Extra fore-end, purchased with new gun:	
Regular shape—Non-selective	**10.00**
Selective	**14.50**
Beavertail—Non-Selective	**18.80**
Selective	**23.30**
Chambering for 3-inch Shell	**5.50**
Beavertail fore-end instead of regular fore-end, add	**8.20**
Stock to customer's dimensions	**15.00**
Winchester Recoil Pad	**3.30**
Checked butt instead of hard rubber	**3.30**

WINCHESTER MODEL 21 SKEET SHOTGUN
STANDARD GRADE

Equipped with 26″ barrels, right barrel Winchester Skeet Choke No. 1 and left barrel Winchester Skeet Choke No. 2. In addition to providing ideal chokes for Skeet shooting, these Winchester Skeet borings are the finest available for brush and short range field shooting. Single trigger. Selective ejection. Non-Auto safety. Beavertail fore-end. No butt plate—wood checked. 12, 16, and 20 gauges. Can be had with either straight or pistol grip stock with the following standard dimensions:

Straight Grip Stock.		Pistol Grip Stock.	
Length of Pull	14″	Length of Pull	14″
Drop of Comb	1½″	Drop at Comb	1 9/16″
Drop at Heel	2″	Drop at Heel	2½″
Pitch	1″	Pitch	1⅝″

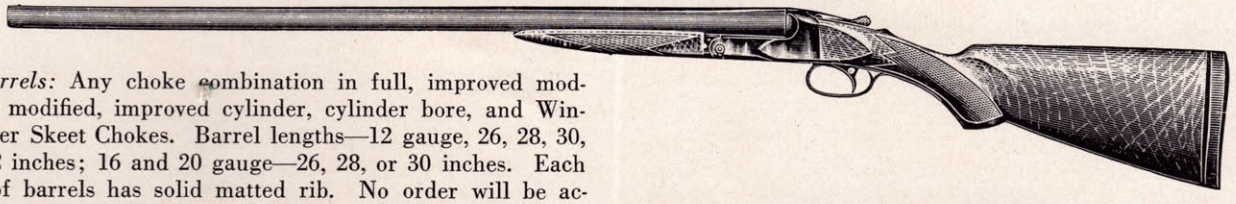
Stock and fore-end are of standard grade walnut, checkered. Sights are Bradley Red Bead 1/8" Front Sight with Winchester Middle Sight No. 94-B (chromium finish). Weights—12 gauge about 7¼ pounds, 16 gauge about 6¾ pounds, 20 gauge about 6½ pounds.

Stock made to customers dimensions on special order only at an additional charge. See "Extras for Standard Gun."

Prices—Order by Symbol Number.

G2148B—12 Gauge, Straight Grip Stock	**$111.25**
G2149B—16 Gauge, Straight Grip Stock	**111.25**
G2159B—20 Gauge, Straight Grip Stock	**111.25**
G2186B—12 Gauge, Pistol Grip Stock	**111.25**
G2187B—16 Gauge, Pistol Grip Stock	**111.25**
G2188B—20 Gauge, Pistol Grip Stock	**111.25**

WINCHESTER MODEL 21 SHOTGUN
TRAP GRADE



Barrels: Any choke combination in full, improved modified, modified, improved cylinder, cylinder bore, and Winchester Skeet Chokes. Barrel lengths—12 gauge, 26, 28, 30, or 32 inches; 16 and 20 gauge—26, 28, or 30 inches. Each set of barrels has solid matted rib. No order will be accepted for special requirements of pattern guarantee. Extra sets of barrels can be furnished. Lengths and choke combinations not listed in table of guns carried in stock shown below, are furnished without extra charge but on special order only which is non-cancellable.

Stock: Pistol grip of Trap Grade (fine figured grade) specially selected walnut. Grip and fore-end finely checkered. Winchester Recoil Pad. The standard Trap Grade stocks have the following dimensions:

	12 Ga.	16 Ga.	20 Ga.
Length of Pull	14½"	14"	14"
Drop of Comb	1½"	1½"	1½"
Drop at Heel	2"	2"	2"
Pitch	1"	1"	1"

Stocks with straight or pistol grip with or without cap, Monte Carlo stock or Offset stock 3/8" maximum, made to customer's specification and fitted with any recoil pad listed in Winchester catalog, furnished without extra charge, on special order only which is non-cancellable. If so ordered we will furnish the Model 21 Trap Grade Guns with a hard rubber butt plate attached in place of recoil pad and include an unattached rubber recoil pad. Beavertail fore-end can be furnished at extra charge.

Safety: All Model 21 Trap Grade Field Guns are furnished with automatic safety unless expressly specified otherwise. Non-automatic safety or no safety will be furnished, if so specified, at no extra charge. Model 21 Trap Grade Trap Gun (G2139B) is furnished with non-automatic safety unless expressly specified otherwise. Automatic Safety or no safety will be furnished, if so specified, at no extra charge.

Sights: Standard sight equipment consists of Winchester No. 81-D front sight and No. 94-B middle sight. Other sights as follows can be furnished, when so specified, at no extra charge:

Winchester No. 81-E front sight with No. 94-C middle sight.
Winchester No. 81-F front sight with No. 72-A middle sight.
Bradley ivory or red bead front sights can be furnished at no extra charge, when so specified, in the following combinations with Winchester sights:
Bradley front sight 1/8" bead with Winchester No. 94-B middle sight.
Bradley front sight 3/32" bead with Winchester No. 72-A middle sight.

Weight: 12 gauge, 30 inch barrels about 7¼ lbs. 16 and 20 gauge, 28 inch barrels, about 6½ lbs. For each two inches of barrel length above or below standard given, add or subtract approximately 2 ounces per gun.

Varieties carried in stock: Order by symbol number.

Field Guns:

G2171B	12 Ga.	30"	Right Modified	Left Full Choke.
G2173B	16 Ga.	28"	Right Modified	Left Full Choke.
G2189B	20 Ga.	28"	Right Modified	Left Full Choke.

Trap Gun:

G2139B 12 Ga. 32" Right Full Choke. Left Full Choke.

Prices:

Single Trigger, Selective Ejection	**$135.25**
Double Trigger, Non-Selective Ejection	**107.95**
Double Trigger, Selective Ejection	**121.60**
Single Trigger, Non-Selective Ejection	**121.60**

EXTRAS—TRAP GRADE

Extra set of barrls without fore-end, purchased with a new gun:

Non-Selective Ejection	**$44.00**
Selective Ejection	**55.00**

Extra fore-end—purchased with new gun:

Regular shape—Non-Selective	**15.50**
Selective	**20.00**
Beaver-tail—Non-Selective	**30.90**
Selective	**35.40**
Chambering for 3" Shell	**5.50**
Extra for Cheek Piece	**18.00**
Beavertail fore-end instead of regular fore-end, add	**13.65**

WINCHESTER MODEL 21 VENTILATED RIB SHOTGUN
TRAP GRADE

Barrels: 12 Gauge only. Any choke combinations in full, improved modified, modified, improved cylinder, cylinder bore, and Winchester Skeet Chokes. 30″ and 32″ barrels only. Standard gun carried in stock: Symbol number G2132B, 12 ga. 32″, Ventilated Rib, Full and Full.

Stock: Same specifications as Trap Grade with solid rib.
Sights: Same as Trap Grade, with solid rib.

Prices:

Single Trigger, Selective Ejection G2132B	**$181.90**
Double Trigger, Selective Ejection	**168.25**

Any Trap Grade Ventilated Rib Model 21 Gun can be furnished with standard fore-end instead of beavertail fore-end, in which case subtract from prices quoted above **13.65**

WINCHESTER MODEL 21 SKEET SHOTGUN
TRAP GRADE

Single trigger, selective ejection, non-auto safety, beavertail fore-end, no butt plate—wood checked. Stock trap grade (fine figured grain) specially selected walnut, grip and fore-end finely checkered. Straight grip stock 14″ x 1½″ x 2″ x 1″ pitch. Pistol grip stock 14″ x 1 9/16″ x 2½″ x 1⅝″ pitch. Either or both barrels Winchester Skeet Chokes Nos. 1 or 2. Bradley red bead ⅛″ front sight with Winchester Middle Sight No. 94-B. Weight—12 Ga. 7¼ lbs, 16 Ga. 6¾ lbs, 20 Ga. 6½ lbs. Carried in stock in the following varieties. Order by symbol number.

Straight Grip Stock	Pistol Grip Stock
G2138B—12 Gauge	G2131B—12 Gauge
G2169B—12 Gauge	G2161B—16 Gauge
G2196B—20 Gauge	G2191B—20 Gauge

Model 21 Trap Grade Skeet Guns are also furnished on special order, which is non-cancellable, in any barrel length, choke combination, or stock specifications allowed under the regular Model 21 Trap Grade guns at no extra charge.
Price, Model 21 Trap Grade Skeet Gun **$148.90**

Winchester Model 21 Custom Built Shotguns

These guns, built to special order only, list at $225.00 and upwards. Please see special booklet which we will mail on request. Winchester makes a specialty of very fine custom built shotguns.

ENGRAVING MODEL 21 SHOTGUNS

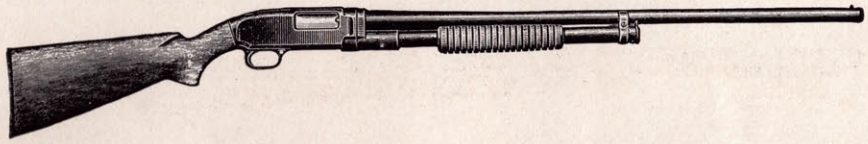
All of the above Winchester Model 21 Shotguns have plain blued actions and barrels. Any of the above can be engraved with the standard engraving as listed below, or special engraving will be estimated on on receipt of sketches.

No. 1. Simple scroll engraving, action only	**$14.25**
No. 2. Scroll engraving, game bird on bottom of action, no engraving on barrel	**23.25**
No. 3. Same as No. 2, more elaborate	**28.50**
No. 4. Tastefully engraved, game scene on bottom of action, line engraving at breach of barrels	**81.50**
Inlaying 3 initials in gold on trigger guard	**8.85**
Engraving 3 initials on trigger guard	**2.75**
Engraving No. 4 on extra set of barrels	**4.25**

Name Plates, Shield or Oval, Attached on Guns.

10 Karat Gold, not engraved	**11.15**
Silver, not engraved	**8.15**
If engraved, add per letter	**.35**
No. 1. A three initial monogram and circle the size of a twenty-five cent piece, engraved and inlaid in gold on both sides of receiver	**31.00**
No. 2. Same, except not inlaid in gold	**10.50**
No. 3. Same as No. 1, except dog on one side and duck on the other instead of monogram	**39.50**

WINCHESTER MODEL 12 SLIDE ACTION HAMMERLESS REPEATING SHOTGUN



This celebrated gun is made in 12, 16, or 20 gauge, and is takedown. It is known for its close hard shooting and its durability which account for its great popularity for wildfowl and pheasant hunting and trap shooting. It is of very superior mechanical design with one-piece receiver closed at the rear—not simply on top. Short, solid breech bolt. Fast, dependable triple safety action. Easy takedown. Walnut stock with full pistol grip. Barrel lengths 26, 28, 30, or 32 inches in 12 gauge, 26, 28 or 30 inches in 16 and 20 gauge. Chokes—full choke, improved modified, modified, improved cylinder, cylinder, or Winchester Skeet Chokes No. 1 or 2 furnished on special order at no extra charge. All gauges chambered for the 2¾ inch shell except Heavy Duck Gun in 12 gauge. Five-shot magazine—with shell in chamber fires six shots. Weight, 12 gauge approximately 7¼ pounds, 16 or 20 gauge approximately 6¼ pounds. Stock dimensions—12 gauge 13¼ x 11/16 x 2½ inches, 16 and 20 gauges 13⅝ x 1½ x 2½ inches. 3-shot wooden magazine plug included with every gun.

Model 12—Hammerless Take-Down Repeating Shotgun

Standard Grade, 12, 16 and 20 gauges	$ 39.50
Standard Grade gun with raised matted rib	47.50
Standard Trap, 12, 16 and 20 gauges, pistol grip or straight grip	56.45
Special Trap Grade, 12, 16 and 20 gauges, stock to customer's dimensions	95.00
Pigeon Grade, 12, 16 and 20 gauges, stock to customer's dimensions	195.10
Riot gun, 12 gauge	39.50

Interchangeable Barrels

Interchangeable barrel, Standard Grade	22.00
Interchangeable barrel, Standard Trap Grade with raised matted rib	31.90
Interchangeable barrel, Special Trap or Pigeon Grades with raised matted rib	47.30

Model 12—Skeet Gun

Standard Grade, 12, 16 and 20 Gauges	56.45

Model 12 Heavy—Duck Gun—Chambered for 3-Inch Shells

(30″or 32″ barrel only)

Standard Grade, 12 Gauge only	45.00
Standard Trap Grade, 12 Gauge only	61.95
Special Trap Grade, 12 Gauge only	100.50
Pigeon Grade, 12 Gauge only	200.60

Interchangeable Barrels for 3″ Shells to fit Standard Duck Guns

Standard Grade	27.50
Standard Grade with Matted Rib	35.48
Standard Trap Grade	37.40
Special Trap or Pigeon Grade	52.80

Interchangeable barrels for 2¾″ chambers can be supplied if desired. For prices see interchangeable barrels under Model 12.

Model 12—Repeating Shotgun with Ventilated Rib

12 Gauge only—30 inch Barrel only

Standard Trap Grade, pistol grip or straight grip	101.60
Special Trap Grade	151.10
Pigeon Grade	250.00

Interchangeable Barrels

Standard Trap Grade	66.00
Special Trap or Pigeon Grades	82.50

WINCHESTER MODEL 42 HAMMERLESS SLIDE ACTION REPEATING SHOTGUN—.410 BORE

Same design breech action as Model 12. Chambered for .410 Bore, 3-inch Shells. Barrels 26 or 28 inches, with full, modified, Skeet, or cylinder choke optional. Weight approximately 5⅞ pounds. Stock, walnut, 13¾ x 1½ x 2¼ x 1″ pitch.

Prices

Standard Gun	$32.50
Standard Gun with Solid Raised Matted Rib Barrel	40.50
Skeet Gun	39.35
Skeet Gun with Solid Raised Matted Rib Barrel	47.35
Trap Grade (without Solid Raised Matted Rib Barrel)	60.45
Trap Grade (with Solid Raised Matted Rib Barrel)	68.45
Skeet Gun—Trap Grade (without Solid Raised Matted Rib Barrel)	67.30
Skeet Gun—Trap Grade (with Solid Raised Matted Rib Barrel)	75.30

WINCHESTER MODEL 97 HAMMER REPEATING SHOTGUN

An old favorite that has given excellent service for many years, and still a favorite with those who prefer a gun with outside hammer. Made in 12 and 16 gauges.

Prices

Standard Grade, 12 and 16 gauges	**$29.95**
Standard Trap Grade, 12 and 16 gauges	**44.55**
Special Trap Grade, 12 and 16 gauges	**79.30**
Pigeon Grade, 12 and 16 gauges	**186.90**
Take-down Guard and Riot Gun, 12 gauge only	**29.95**
Take-down Trench Gun with Bayonet	**56.25**

Interchangeable Barrels

Interchangeable barrel, Standard Grade	**19.80**
Interchangeable barrel, Standard Trap	**25.30**
Interchangeable barrel, Special Trap or Pigeon Grades	**38.50**

WINCHESTER MODEL 37 SINGLE BARREL SHOTGUN

Single barrel, single shot, semi-hammerless shotgun of new design, built throughout of steel, walnut stock with pistol grip, semi-beavertail fore-end, hard rubber butt plate, automatic ejector Full choke standard. Furnished in 12 gauge with 28, 30, or 32 inch barrels, 16 gauge with 28, 30, or 32 inch barrels, 20 gauge with 28 or 30 inch barrels, and 28 gauge with 28 or 30 inch barrels. Price **$8.90**

—Parker Shotguns—

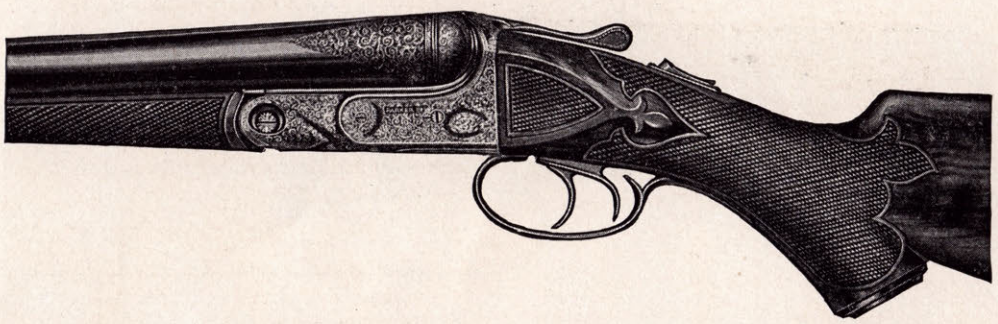
Parker Brothers are our oldest exclusive shotgun makers. They have been making high grade shotguns only for over half a century, and so successfully that their guns have become known as the "Old Reliable." Lately the Remington Arms Company have acquired a controlling interest in this firm, thereby making available the Remington laboratory and metallurgical facilities. This will insure Parker shotguns taking advantage of every practical and scientific development.

"A. 1. SPECIAL" GRADE

Made to order individually. Finest obtainable Circassian walnut stock and fore-end with beautiful figure. Elaborate hand checkering. Any stock dimensions, including Monte Carlo, cheek piece or cast off, and any style of grip desired. Choice of recoil pad or engraved skeleton steel plate. Barrels and frame extensively engraved. Gold inlay if desired. Triggers gold plated. Hinged front trigger. Solid gold name plate inlaid in pistol grip cap or in stock with owner's name or monogram. Ivory sights if desired. Automatic ejectors. Made in 10, 12, 16, 20, 28, and .410 gauges. Any boring of barrels. See weights, barrel lengths, chamber lengths, and other specifications on Page 73.

"A. 1. Special" Grade with double triggers	**$865.00**
"A. 1. Special" Grade with selective single trigger	**915.60**
Beavertail fore-end, extra	**44.55**
Raised ventilated rib, extra	**44.00**
Extra set of interchangeable barrels, including regular fore-end	**357.50**

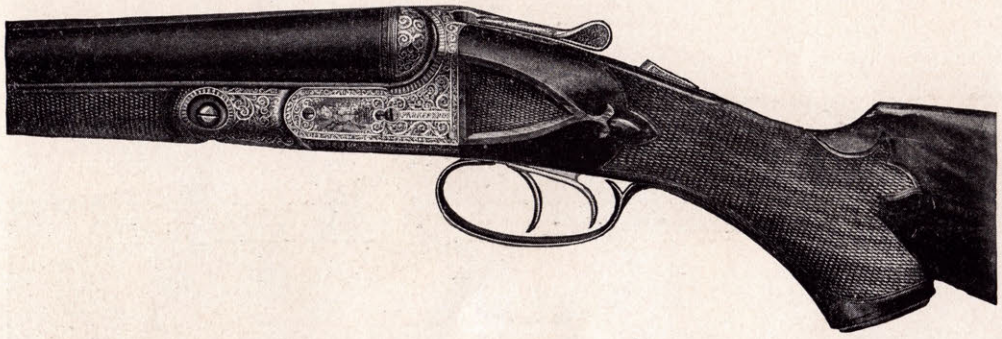
"A. A. H. E." GRADE



Circassian walnut stock and fore-end, expertly fitted and shaped by hand to customer's individual needs. Delicately hand checkered. Solid gold name plate inlaid in pistol grip cap or in stock with engraved name or monogram. Any stock dimensions including cheek piece, Monte Carlo or cast off, and any style of grip. Choice of recoil pad or engraved skeleton steel butt plate. Highest quality engraving on barrels and frame—either scroll or a combination of game scenes and scroll. Hinged front trigger. Ivory sights if desired. Automatic ejectors. Made in 10, 12, 16, 20, 28, and .410 gauges. Any boring of barrels. See weights, barrel lengths, chamber lengths, and other specifications on Page 73.

"A. A. H. E." Grade with double triggers	**$722.50**
"A. A. H. E." Grade with selective single trigger	**763.20**
Beavertail fore-end, extra	**36.58**
Raised ventilated rib, extra	**44.00**
Extra set of interchangeable barrels, including regular fore-end	**302.50**

"A. H. E." GRADE



Fine imported walnut stock and fore-end, beautifully checkered. Solid gold name plate inlaid in pistol grip cap or in stock, engraved with name or monogram. Any stock measurements, including any style of grip, cheek piece, Monte Carlo or cast off. Rubber recoil pad or engraved skeleton steel butt plate. Tastefully applied engraving, wrought with great care. Game scenes and delicate scroll. Hinged front trigger. Ivory sights if desired. Automatic ejectors. Made in 10, 12, 16, 20, 28, and .410 gauges. Any boring of barrels. See weights, barrel lengths, chamber lengths, and other specifications on Page 73.

"A. H. E." Grade with double triggers	**$497.50**
"A. H. E." Grade with selective single trigger	**528.30**
Beavertail fore-end, extra	**29.70**
Raised ventilated rib, extra	**33.00**
Extra set of interchangeable barrels, including regular fore-end	**203.50**

"B. H. E." GRADE

Stock and fore-end of imported walnut with fine grain and beautiful figure. Delicately checkered. Mounted with solid gold name plate in stock or in pistol grip cap. Custom-built stock to any measurements desired, including cheek piece, Monte Carlo or cast off, and any style of grip. Rubber recoil pad or engraved skeleton steel butt plate. Scroll engraving and life-like hunting scenes. Ivory sights if desired. Automatic ejectors. Made in 10, 12, 16, 20, 28, and .410 gauges. Any boring of barrels. See weights, barrel lengths, chamber lengths, and other specifications on Page 73.

"B. H. E." Grade with double triggers	**$355.00**
"B. H. E." Grade with selective single trigger	**385.80**
Beavertail fore-end, extra	**26.73**
Raised ventilated rib, extra	**33.00**
Extra set of interchangeable barrels, including regular fore-end	**154.00**

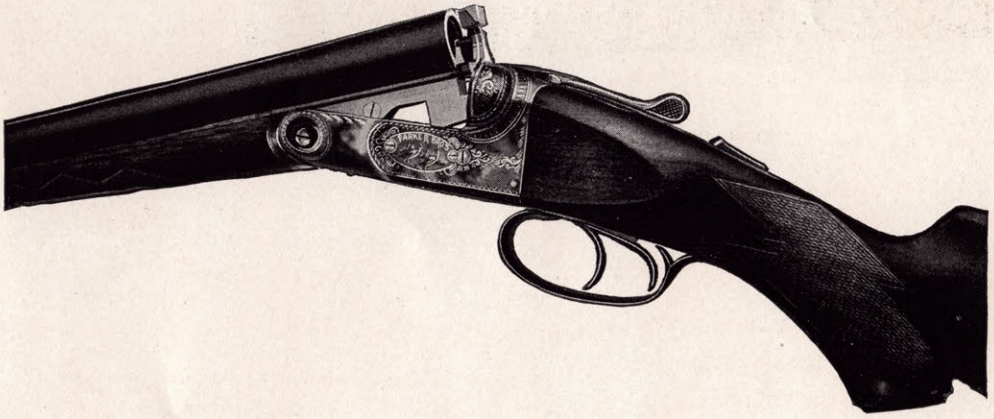
"C. H. E." GRADE

Selected high grade walnut stock and fore-end, handsomely checkered. Sterling silver name plate inlaid in stock. Stock with any specifications desired including cheek piece, Monte Carlo or cast off, and any style of grip. Rubber recoil pad or skeleton steel butt plate. Engraving is game scenes and scroll. Ivory sights if desired. Automatic ejectors. Made in 10, 12, 16, 20, 28 and .410 gauges. Any boring of barrels. See weights, barrel lengths, chamber lengths, and other specifications on Page 73.

"C. H. E." Grade with double triggers	**$251.50**
"C. H. E." Grade with selective single trigger	**282.30**
Beavertail fore-end, extra	**22.28**
Raised ventilated rib, extra	**33.00**
Extra set of interchangeable barrels, including regular fore-end	**126.50**

"D. H." AND "D. H. E." GRADES

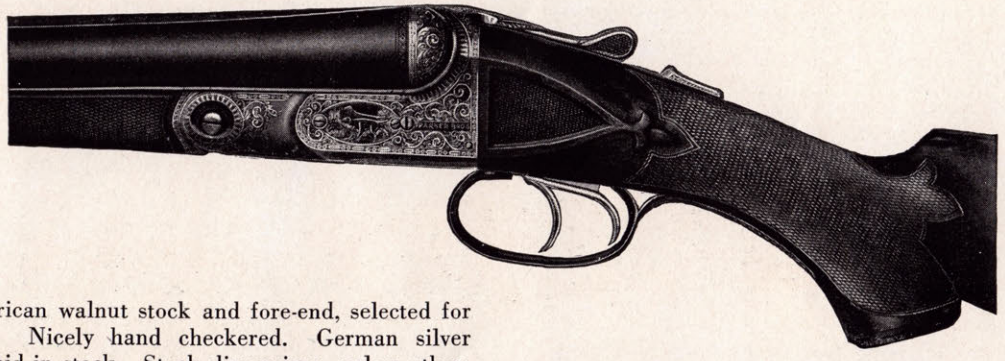
Stock and fore-end of fancy walnut, finely hand checkered. Sterling silver name plate inlaid in stock. Stock custom-built to any specifications desired without extra charge, including cheek piece, Monte Carlo or cast off, and any style of grip. Rubber recoil pad or skeleton steel butt plate. Engraving is game scenes and scroll. Ivory sights if desired. "D. H." with plain extractor. "D. H. E." with automatic ejectors. Made in 10, 12, 16, 20, 28, and .410 gauge. Any



boring of barrels. See weights, barrel lengths, chamber lengths, and other specifications on Page 73.

"D. H." Grade with double triggers	**$159.00**
"D. H." Grade with selective single trigger	**189.80**
"D. H. E." Grade with double triggers	**186.50**
"D. H. E." Grade with selective single trigger	**217.30**
Beavertail fore-end, extra	**17.82**
Raised ventilated rib, extra	**27.50**
Extra set of barrels, including regular fore-end, "D. H." Grade	**72.60**
Extra set of barrels, including regular fore-end, "D. H. E." Grade	**99.00**

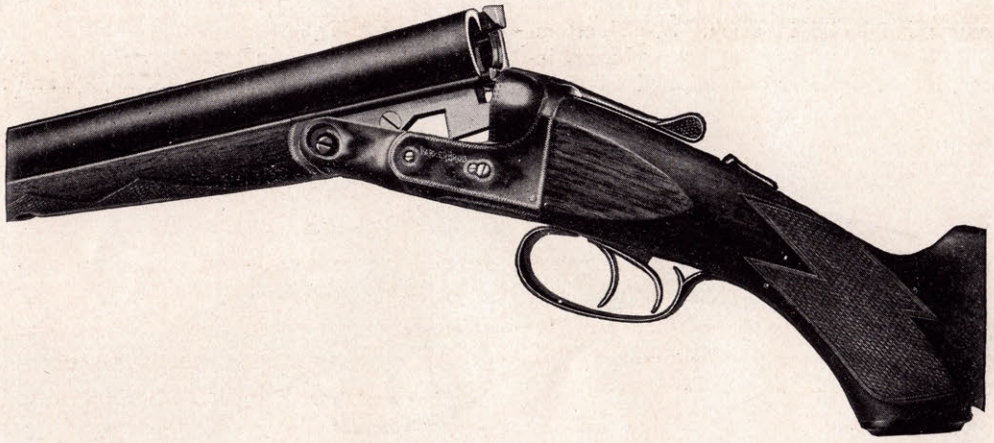
"G. H." AND "G. H. E." GRADES



Figured American walnut stock and fore-end, selected for natural beauty. Nicely hand checkered. German silver name shield inlaid in stock. Stock dimensions, unless otherwise specified, 14 inches long, 2½ inches drop at heel, 1⅝ inches drop at comb. Stocks made to order with lengths from 13½ to 14½ inches and with drops from 2 to 3¼ inches without extra charge. Full pistol grip with cap. Option of straight or half pistol grip. Hard rubber butt plate. Game birds and scroll engraving. Ivory sights if desired. "G. H." with plain extractor. "G. H. E." with automatic ejectors. Made in 10, 12, 16, 20, 28, and .410 gauges. Any boring of barrels. See weights, barrel lengths, chamber lengths, and other specifications on Page 73.

"G. H." Grade with double triggers	**$112.00**
"G. H." Grade with selective single trigger	**140.60**
"G. H. E." Grade with double triggers	**134.00**
"G. H. E." Grade with selective single trigger	**162.60**
Beavertail fore-end, extra	**14.85**
Raised ventilated rib, extra	**27.50**
Soft rubber recoil pad, extra	**5.50**
Skeleton steel butt plate, extra	**8.80**
Oil finishing stock and fore-end, extra	**8.80**
Stock outside of prescribed limits, including cheek piece, Monte Carlo or cast off, extra	**15.00**
Extra set of barrels, including regular fore-end, "G. H." Grade	**49.50**
Extra set of barrels, including regular fore-end, "G. H. E." Grade	**72.60**

"V. H." AND "V. H. E." GRADES



Hand-fitted, hand-finished, and made to customer's exact specifications throughout. Stock and fore-end of selected American walnut, hand checkered. German silver name shield inlaid in stock. Stock dimensions, unless otherwise specied, 14 inches long, 2½ inches drop at heel, 1⅝ inches drop at comb. Stocks made to order with lengths from 13½ to 14½ inches, and with drops from 2 to 3¼ inches without extra charge. Full pistol grip with cap, option of straight or half pistol grip. Hard rubber butt plate. Line engraving. Ivory sights if desired. "V.H." with plain extractor. "V.H.E." with automatic ejectors. Made in 12, 16, 20, 28, and .410 gauges. 10 gauge at extra charge. Any boring of barrels. See weights, barrel lengths, chamber lengths, and other specifications on Page 73.

"V. H." Grade with double triggers	**$79.50**
"V. H." Grade with selective single trigger	**108.10**
"V. H. E." Grade with double triggers	**100.40**
"V. H .E." Grade with selective single trigger	**129.00**
Beavertail fore-end, extra	**14.85**
Raised ventilated rib, extra	**27.50**
Soft rubber recoil pad, extra	**5.50**
Skeleton steel butt plate, extra	**8.80**
Oil finishing stock and fore-end, extra	**8.80**
Stock outside of prescribed limits, including cheek piece, Monte Carlo or cast off, extra	**15.00**
Furnished in 10 gauge, extra	**24.00**
Extra set of barrels, including regular fore-end, "V. H." Grade	**35.20**
Extra set of barrels, including regular fore-end, "V. H. E." Grade	**58.30**

PARKER DOUBLE BARREL TRAP GUNS

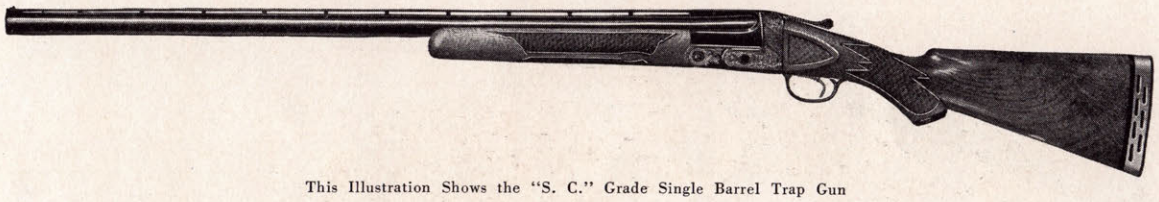
Parker Double Barrel Trap Guns are made in all grades from the "V. H. E." up. They are built to meet the exacting requirements of champion trap shooters. For perfect balance, steady and accurate pointing, and sterling shooting qualities, there are no finer trap guns in the world. Each gun is produced with the greatest of care and thoroughly tested for uniform shooting qualities.

Made in 12 gauge. Chambered for 2¾-inch shells. 30 or 32-inch barrels, both full choke. Option of any other barrel length and boring. Automatic ejectors. Non-automatic safety. Option of automatic safety. Selective single trigger. Ivory bead front and rear sights. Red bead front sight if desired. Beavertail fore-end. Raised ventilated rib. Hawkins soft rubber recoil pad. Option of any other make of pad. Stock dimensions, unless otherwise specified, 14⅜ inches long including recoil pad, 1⅞ inches drop at heel, 1½ inches drop at comb. Full pistol grip with rubber cap. Option of straight or half pistol grip. Any other stock measurements including cheek piece, Monte Carlo or cast off, will be furnished in accordance with descriptions and prices given under separate grades. Quality of walnut, engraving and other features correspond with respective grades. Weight, with 32-inch barrels, 8 to 8¼ pounds. See table Page 73 for variations in weights depending on barrel lengths.

"V. H. E." Grade Double Barrel Trap Gun	**$176.85**
"G. H. E." Grade Double Barrel Trap Gun	**210.45**
"D. H. E." Grade Double Barrel Trap Gun	**262.62**
"C. H. E." Grade Double Barrel Trap Gun	**337.58**
"B. H. E." Grade Double Barrel Trap Gun	**445.53**
"A. H. E." Grade Double Barrel Trap Gun	**591.00**
"A. A. H. E." Grade Double Barrel Trap Gun	**843.78**
"A. 1. Special" Grade Double Barrel Trap Gun	**1,004.15**

NOTE: If automatic ejectors, selective single trigger, beavertail fore-end, or ventilated rib are not wanted, deduct the extra charges listed under respective grade shown in preceding pages.

PARKER SINGLE BARREL TRAP GUNS



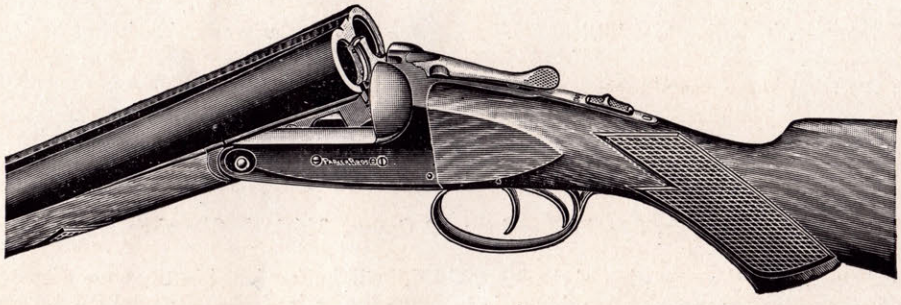
This Illustration Shows the "S. C." Grade Single Barrel Trap Gun

Parker Single Barrel Trap Guns are made in five grades, corresponding in quality with the high grade double barrel shotguns. They are universally praised for perfection of balance, handsome lines, and unexcelled shooting qualities. The barrel lugs and fore-end lugs are forged integral with the barrel, insuring great strength.

Made in 12 gauge only. Chambered for 2¾-inch shells. 30, 32 or 34-inch barrel, full choke. Option of any other boring. Automatic ejector. Beavertail fore-end. Raised ventilated rib, affording level sighting plane, quick, sure pointing, and freedom from heat waves caused by continuous shooting. Hawkins soft rubber recoil pad. Option of any other make of pad. Stock dimensions, unless otherwise specified, 14⅜ inches long including recoil pad, 1⅞ inches drop at heel, 1½ inches drop at comb. Full pistol grip with rubber cap. Any other stock dimensions including cheek piece, Monte Carlo or cast off, and straight or half pistol grip without extra charge. Weight 7¾ to 8½ pounds. See table of weights on Page 73.

"S. C." Grade Single Barrel Trap Gun	**$191.00**
"S. B." Grade Single Barrel Trap Gun	**256.00**
"S. A." Grade Single Barrel Trap Gun	**415.00**
"S. A. A" Grade Single Barrel Trap Gun	**612.50**
"S. A. 1. Special" Grade Single Barrel Trap Gun	**727.50**

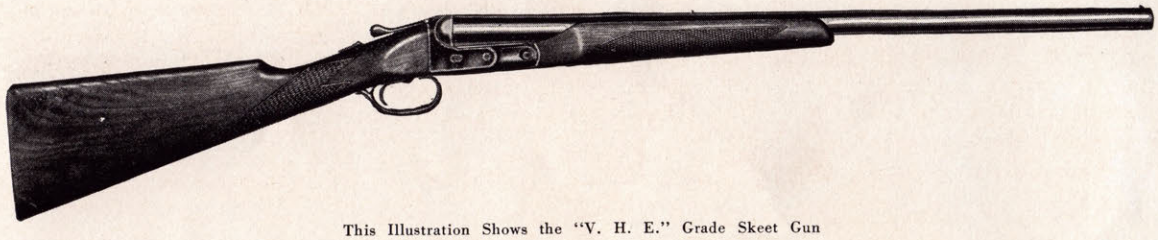
"TROJAN" GRADE



Hand-fitted and hand-finished. Made to standard specifications only. Case hardened frame. Made in 12 gauge with 26, 28, 30-inch barrels, weights 7 to 7¾ pounds; 16 gauge with 26, 28-inch barrels, weights 6½ to 7 pounds; 20 gauge with 26, 28-inch barrels, weights 6¼ to 6¾ pounds. Standard borings unless otherwise specified, 30-inch barrels both full choke, 26 and 28-inch barrels, right modified, left full choke. Option of any other combination desired, including cylinder and improved cylinder bore. Standard stock dimensions only, 14 inches long, 2½ inches drop at heel, 1⅝ inches drop at comb. Full pistol grip, no cap. Hard rubber butt plate. Recoil pad at extra charge. Selective single trigger at extra charge. *Note:* No deviation is made from these specifications. Not fitted with automatic ejectors or beavertail fore-end.

"Trojan" Grade with double triggers	**$60.50**
"Trojan" Grade with selective single trigger	**89.10**
Soft rubber recoil pad, extra	**5.50**
Extra set of interchangeable barrels, including fore-end	**27.50**

PARKER SKEET GUNS



This Illustration Shows the "V. H. E." Grade Skeet Gun

All double barrel ejector guns from the "V. H. E." Grade up are furnished in Skeet models. These guns are built to the customer's individual specifications. They are thoroughly tested to insure the finest shooting qualities at Skeet ranges.

Made in 12, 16, 20, 28, and .410 gauges, 26-inch barrels. Bored for Skeet shooting. Right barrel marked "Skeet-Out" for first shot at outgoing target. Left barrel marked "Skeet-In" for incoming target. Option of any other barrel length and boring. Automatic ejectors. Non-automatic safety. Option of automatic safety. Selective single trigger. Ivory bead front and rear sights. Red bead front sight if desired. Beavertail fore-end. Stock dimensions, unless otherwise specified, 14 inches long, 2¼ inches drop at heel, 1½ inches drop at comb. Checkered butt on "V. H. E." and "G. H. E." Grades. Skeleton steel butt on "D. H. E." to "A. 1. Special" Grades. Straight grip. Option of full pistol grip with cap or half pistol grip. Stock measurements and other specifications will be varied in accordance with descriptions and prices given under separate grades. Quality of walnut, type of engraving, and other features correspond with respective grades. See Page 73 for table of gauges, weights and chamber lengths. Also supplied with raised ventilated rib at the extra charge listed under each respective grade shown in preceding pages.

"V. H. E." Grade Skeet Gun	**$143.85**
"G. H. E." Grade Skeet Gun	**177.45**
"D. H. E." Grade Skeet Gun	**235.12**
"C. H. E." Grade Skeet Gun	**304.58**
"B. H. E." Grade Skeet Gun	**412.53**
"A. H. E." Grade Skeet Gun	**558.00**
"A. A. H. E." Grade Skeet Gun	**799.78**
"A. 1. Special" Grade Skeet Gun	**960.15**

Note: If automatic ejectors, selective single trigger, or beavertail fore-end are not wanted, deduct the extra charges listed under respective grades shown in preceding pages.

CHOICE OF BORING OF BARRELS

The barrels of PARKER guns, including the "TROJAN," are furnished with any combination of borings desired—from true cylinder to extreme full choke. When no other boring is specified, barrels of all guns, except those for Skeet and trap shooting, will be furnished with the right barrel bored modified choke and the left barrel bored full choke.

EXTRA LONG RANGE GUNS

12 Gauge, 3-inch Chamber; 10 Gauge, 3½-inch Chamber

PARKER double barrel guns, with the exception of the "TROJAN," will be furnished in 12 gauge with 3-inch chambers and in 10 gauge with 3½-inch chambers for use with maximum long range heavy loaded shells. PARKER guns so chambered are guaranteed to handle these shells properly, and will give unsurpassed performance at extreme ranges. There is no extra charge.

GUN CASES

Every PARKER gun is carefully packed for shipment. For the convenience of our customers we carry a selection of molded leather and trunk type gun cases which are of good quality commensurate with the prices quoted. These are made to fit each PARKER gun, and will be furnished as follows:

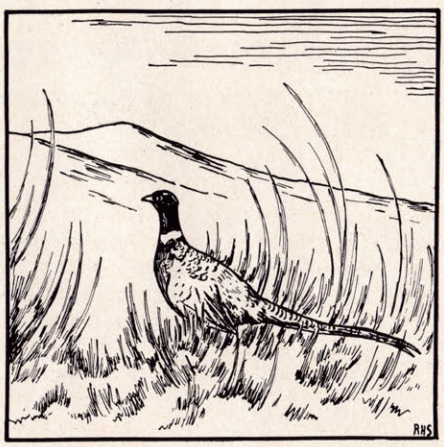
Red Head Case, molded cowhide, flannel lined	**$11.50**
Red Head Case, heavy mahogany leather, felt lined, hand-sewed seams	**17.00**
Trunk type, black leather on light wood, colored velvet lining	**35.00**
Trunk type, heavy russet or brown cowhide on bass wood, billiard cloth lining, heavy brass corners	**50.00**

CHAMBER LENGTHS, BARREL LENGTHS, AND WEIGHTS

The following table shows the chamber lengths, barrel lengths, and weight limits of PARKER shotguns, in all grades, with the exception of the "TROJAN." All PARKER shotguns are manufactured as light in weight as possible, consistent with strength and durability, as well as maximum shooting qualities and minimum recoil. PARKER methods of manufacturing and hand fitting permit holding the weight of a gun to within one ounce of any weight specified in the brackets indicated below, and at the same time to maintain perfect balance. Each PARKER gun is guaranteed to handle properly any standard factory loaded shell for which it is chambered.

Gauge	*Chamber*	*26-inch Barrels*	*28-inch Barrels*	*30-inch Barrels*	*32-inch Barrels*	*34-inch Barrels*
Double Barrel Shotguns, with regular fore-end and two trigger:						
10	3½ in.			10½ to 30¾ lbs.	10¾ to 11 lbs.	
	2⅞ in.			9 to 9¼ lbs.	9¼ to 9½ lbs.	
12	3 in.			7¾ to 8 lbs.	8¼ to 8½ lbs.	
	2¾ in.	6⅞ to 7⅛ lbs.	7 to 7¼ lbs.	7¼ to 7½ lbs.	7½ to 7¾ lbs.	
16	2¾ in.	6⅝ to 6⅞ lbs.	6⅞ to 7⅛ lbs.	7⅛ to 7⅜ lbs.		
20	2¾ in.	6⅛ to 6⅜ lbs.	6⅜ to 6⅝ lbs.	6⅝ to 6⅞ lbs.		
28	2⅞ in.	5¾ to 6 lbs.	5⅞ to 6⅛ lbs.			
.410	3 in.	5⅝ to 5⅞ lbs.	5¾ to 6 lbs.			
Double Barrel Trap Guns, with ventilated rib, beavertail fore-end, recoil pad, and single trigger:						
12	2¾ in.			7⅞ to 8⅛ lbs.	8 to 8¼ lbs.	
Single Barrel Trap Guns:						
12	2¾ in.			7¾ to 8 lbs.	8 to 8¼ lbs.	8¼ to 8½ lbs.
Skeet Guns, with beavertail fore-end and single trigger:						
12	2¾ in.	7¼ to 7½ lbs.	7⅜ to 7⅝ lbs.			
16	2¾ in.	7 to 7¼ lbs.	7¼ to 7½ lbs.			
20	2¾ in.	6½ to 6¾ lbs.	6⅝ to 6⅞ lbs.			
28	2⅞ in.	6 to 6¼ lbs.	6⅛ to 6⅜ lbs.			
.410	3 in.	5⅞ to 6⅛ lbs.	6 to 6¼ lbs.			

Guns exceeding tabulated weights, extra **$24.00**
Barrel lengths other than shown above (24-inch minimum, 34-inch maximum), extra **24.00**



—Remington Shotguns—

Remington has been building shotguns for over fifty years. Thirty years ago they put out their remarkable autoloading shotgun which has been such an outstanding success. Their new "Over and Under" shotgun marks a unique change in gun construction in America. Remington guns have always been characterized by best materials, careful workmanship, and complete reliability.

REMINGTON OVER AND UNDER SHOTGUN

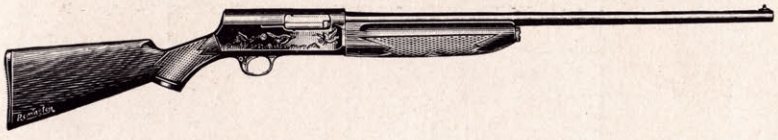
This is a most excellent American shotgun, and destined to become increasingly popular. It has many points to commend it. The over and under barrel construction offers a single sighting plane which permits of more accurate pointing. The straight line recoil of the lower barrel, which is usually fired first, leaves the shooter ready for his second barrel without the usual disturbance from barrel jump. Made in 12 gauge only, with 26, 28, 30, or 32 inch barrels. The standard gun is regularly supplied with modified choke in the under barrel and full choke in upper barrel, Target and Trap grades have full choke in both barrels, and Skeet guns regularly have improved cylinder in both barrels, but any combination or kind of choke desired can be obtained in any grade on special order without extra charge. The Standard stock dimensions are 14″ long, 2½″ drop at heel, and 1⅝″ drop at comb. Half pistol grip. Any other dimensions subject to an extra charge of $15.00 in Standard grade. Other grades are supplied with any grip, length, or drop of stock desired without extra charge. Chambered for the 2¾″ shell, but on special order at a slight extra charge can be had chambered for the 3″ shell.

No. 32A. Standard Grade	**$99.50**
No. 32. Skeet Gun, automatic ejectors, selective single trigger, beavertail forend plain barrel	**119.00**
Same with raised solid rib	**127.00**
Same with ventilated rib	**139.40**
No. 32TC Target Grade, automatic ejectors, selective single trigger, beavertail forend, raised ventilated rib	**144.90**
No. 32S Trap Special Grade, automatic ejectors, selective single trigger, beavertail forend, raised solid rib	**132.50**
No. 32D Tournament Grade	**250.00**
No. 32E Expert Grade	**300.00**
No. 32F Premier Grade	**385.00**

Extras where not stated above.

Raised solid rib	**8.00**
Raised ventilated rib	**20.40**
Remington selective single trigger	**16.50**
Chambering for 3″ shell	**5.50**

REMINGTON AUTOLOADING SHOTGUNS



America's most popular autoloading shotgun, made in the United States by Remington for the past thirty years. Has features and refinements found in no other autoloading shotgun. Made in 12, 16, and 20 gauge and chambered for 2¾ inch shells. Standard length of barrel 28 inches, with 26, 30, and 32 inch optional. Standard stock dimensions 14″ x 1⅝″ x 2½″. Deviations subject to extra charge. These Remington autoloading shotguns are made in two models; the Model No. 11 is a five shot gun, and is furnished with a 3-shot magazine plug for migratory bird shooting without extra charge. The "Sportsman" model is a 3-shot gun, and has been improved in balance, feel, and appearance. Prices are the same for either model—state model desired.

Standard Grade	**$42.50**
Sportsman Skeet Gun with plain barrel	**49.75**
Sportsman Skeet Gun with raised solid rib	**57.75**
Sportsman Skeet Gun with ventilated rib	**64.00**
Special or Trap Grades	**68.30**
Tournament Grade	**132.10**
Expert Grade	**198.10**
Premier Grade	**264.10**

Extras where not stated above

Raised solid matted rib	**8.00**
Raised ventilated rib	**14.30**
Remington Special Long Range Choke, 12 gauge only, 30 or 32 inch barrels only	**3.20**
Stock to customers dimensions, extra	**15.00**

REMINGTON NO. 31 REPEATING SHOTGUN

Slide action. Made in 12, 16, and 20 gauges, and in two types, one with a 3-shot magazine, and the other with a 5-shot magazine. A 3-shot magazine plug for the 5-shot gun, for use on migratory birds can be had without charge. Standard barrel lengths—12 gauge 30 inches, 16 and 20 gauges 28 inches. Optional 26, 28, 30, or 32 inches. Cylinder, Modified, Full Choke, or Remington Special Skeet Boring optional. Standard stock dimensions 14″ x 1⅝″ x 2½″. Deviations subject to extra charge. State length of barrel and choke desired, and whether 3 or 5-shot magazine is desired.

Standard Grade	**$39.50**
Standard Grade with checkered grip and fore-arm	**42.50**
Skeet Gun, plain barrel	**48.45**
Skeet Gun, raised solid matted rib	**56.45**
Skeet Gun, ventilated rib, 12 gauge only	**68.85**
Trap Special Grade with raised solid matted rib	**56.45**
Target Grade with ventilated rib	**101.35**
Special Grade	**69.55**
Tournament Grade	**127.90**
Expert Grade	**196.00**
Premier Grade	**264.30**

Extras where not stated above

Raised solid matted rib	**8.00**
Matted top surface of barrel	**8.00**
Raised ventilated rib, 12 gauge only	**20.40**
Remington Special Long Range Choke, 12 gauge only, 30 and 32 inch barrels only	**3.20**
Stock to customer's dimensions, extra	**15.00**
Shortening regular stock up to 1-inch, extra	**3.00**

—Fox and Savage Shotguns—

Fox shotguns were formerly built in Philadelphia where their makers achieved an enviable reputation for turning out a thoroughly high grade double gun. In moderate priced double guns their "Sterlingworth" is everything that its name implies. Lately the Savage Arms Corporation has acquired a controlling interest in Fox Guns, thus insuring facilities for better marketing and keeping the product thoroughly abreast of the latest development.

Savage has also entered the field of the autoloading shotgun, and are presenting a very attractive model of that arm.

FOX STERLINGWORTH SHOTGUN

A double barrel hammerless shotgun made in 12, 16, and 20 gauge. Barrels of special forged steel, proof tested. Stock and fore-end of American walnut, nicely checked and finished. Frame and guard ornamented with artistic engraved line work. Furnished in the following specifications at regular prices.

12 Gauge Weight	*16 Gauge Weight*	*20 Gauge Weight*	*Length of Barrels*	*Boring of Barrels*		*Length of Stock*	*Drop of Stock*
				Right	*Left*		
7¾ to 8¼ lbs.	6½ to 7 lbs.	6¼ to 6¾ lbs.	32″	Full	Full	14″	2¾″
7¼ to 7¾ lbs.	6½ to 6¾ lbs.	6¼ to 6½ lbs.	30″	Mod.	Full	14″	2¾″
7 to 7½ lbs.	6¼ to 6½ lbs.	6 to 6¼ lbs.	28″	Mod.	Full	14″	2¾″
6⅞ to 7¼ lbs.	6 to 6¼ lbs.	5¾ to 6 lbs.	26″	Cyl.	Mod.	14″	2¾″

The only variations from the above are changing drop ⅜″ either way at an additional charge of $3.80 and cutting off stock to any desired length and refinishing stock at an additional charge of $2.20.

Price as above	**$42.85**
Fox Sterlingworth Ejector, same as above but equipped with automatic ejectors	**55.75**

Fox Sterlingworth De Luxe Gun, same as Sterlingworth above, but equipped with Soft Rubber Recoil Pad and two Lyman Ivory Bead Sights..... **$46.25**

Fox Sterlingworth De Luxe Ejector, same as De Luxe gun above, but with Automatic Ejectors... **59.25**

Fox Sterlingworth Skeet and Upland Game Gun, same as the standard Sterlingworth gun above, but with 26 inch barrels, right skeet cylinder, left quarter choke. Straight grip stock, length 14″, drop at comb 1½″, drop at heel 2½″, two ivory sights..... **48.00**

Fox Sterlingworth Skeet and Upland Game Gun, same as above, but with Automatic Ejectors, Selective Single Trigger, and Beavertail Forend..... **90.00**

Fox Sterlingworth Wildfowl Grade, with automatic ejectors, extra heavy frame and barrels, 12 gauge, 30 and 32 inch only. Chambered for 2¾ or 3 inch shells. Weight about 9 pounds. Designed for long range loads.. **59.25**

FOX SP GRADE SHOTGUNS

12, 16 or 20 gauge. The frames and barrels are a high polished black finish with artistic line engraving on frame. All sharp angles are eliminated and the blending of the lines of the stock, frame, barrels, and forend result in a streamline design of rare beauty and perfect balance. Barrels—high quality alloy forged steel, proof tested. Frame—forged ordnance steel, streamline, black gun metal finish. Action—two trigger extractor type. Stock—selected American walnut with checkered capped full pistol grip, oil finish, length 14″, drop at heel 2¾ inches. Forend—selected American walnut, finely checkered, special design.

Barrel Specifications

Lengths: 26, 28, 30, or 32 inches.

Weights: 12 gauge, 6¾ to 8 lbs.; 16 gauge, 5¾ to 7 lbs.; 20 gauge, 5½ to 6¾ lbs.

26″ barrels regularly bored right cylinder and left modified.
28″ " " " " modified, left full choke.
30″ " " " " modified, left full choke.
32″ " " " " full choke, left full choke.

Price, SP Grade..... **$60.00**

SPE Grade, same as above but with selective automatic ejectors **73.00**

FOX SPE GRADE SKEET AND UPLAND GAME GUN

12, 16, or 20 gauge. Barrels—26 or 28 inches, right skeet cylinder, left quarter choke, two ivory sights. Stock—capped full pistol grip or straight grip, extra selected walnut, oil finish, checkered butt, length 14″, drop at heel 2⅝ inches. Frame—black gun metal finish. Forend—beavertail, with Deely & Edge style fastener. Fox-Kautzky selective single trigger. Automatic selective ejectors. Price **$110.00**

FOX SPR GRADE SKEET AND UPLAND GAME GUN

12, 16, and 20 Gauge. *Barrels*—26 or 28 inches with ventilated rib, bored as desired. Standard boring; right skeet cylinder, left quarter choke, two ivory bead sights—large red front bead, and small white rear bead. *Stock*—straight or full pistol grip, high grade imported walnut, fine hand checkering on grip and forend, checkered butt, length 14″, drop at heel 2⅝ inches. *Frame*—Ornamented with hand-executed scroll and border engraving. *Forend*—Beavertail, with Deeley & Edge style fastener. *Trigger*—Fox-Kautzky selective single. *Ejectors*—Automatic, selective.

Price **$140.00**

FOX HIGH GRADE SHOTGUNS

Fox A Grade Shotgun. 12, 16, or 20 gauge. Barrels of high grade forged steel, unusually strong, proof tested. Stock and forend of selected walnut, carefully checkered, full or half pistol grip, or made to order with straight grip at no extra charge. Action: two trigger, extractor type, with handsome scroll work.

12 Gauge, 26", 28", 30", or 32" barrels, weight 6¾ to 8 lbs.
16 Gauge, 26", 28", 30", or 32" barrels, weight 5¾ to 7 lbs.
20 Gauge, 26", 28", 30", or 32" barrels, weight 5¾ to 6¾ lbs.

26" barrels regularly bored right cylinder, left modified.
28" barrels regularly bored right modified, left full choke.
30" barrels regularly bored right modified, left full choke.
32" barrels regularly bored right full choke, left full choke.

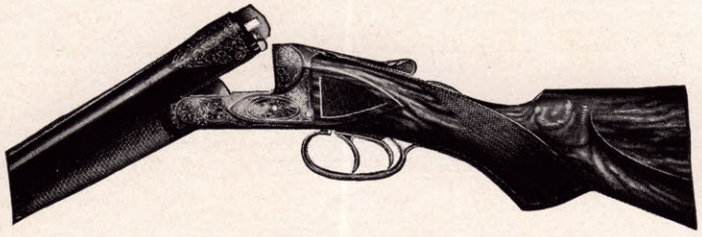
Any other borings furnished at no additional charge.
Standard stock, 14" long, with 1⅝" drop at comb and 2¾" drop at heel. Stocks will be made to order any length and with any drop at no extra charge. Price of Fox A Grade Shotgun as above..... **$60.00**

Fox AE Grade Shotgun Same as A Grade above except equipped with Automatic Ejectors. Price.. **$73.00**

The following "extras" are furnished to order on the A and AE Grades: Single Trigger, Ventilated Rib, Beavertail Forend, Recoil Pad, Lyman Ivory Bead Sights. See price list of extras.

Super Fox HE Grade Shotgun, 12 gauge only. Built specially for long range shooting. When used with long range shells loaded with progressive burning powder it gives excellent patterns at 40, 50, and 60 yards. The standard gun is chambered for 2¾ inch shells, and will be chambered for 3 inch shells, if so ordered. The barrels are of high quality forged steel. Stock and forend of selected walnut, artistically checkered. The frame and guard have fine line work engraving. Barrels are 30 or 32 inches long, and the weight is 8¾ to 9¾ pounds. Both barrels are regularly bored full choke, but can be bored any other way at no extra charge. The standard stock has half pistol grip, 14⅛" long, with 2⅝" drop at heel. Any length and drop of stock or style of grip furnished at no extra charge. Price of HE Grade shotgun, as above..... **$75.00**

The following extras are furnished to order on the HE Grade: Single Trigger, Ventilated Rib, Beavertail Forend, Recoil Pad, Lyman Ivory Bead Sights. See price list of extras.



Fox CE, XE, DE, and FE Grade Shotguns: These are finer grade guns in 12, 16, or 20 gauge, with better finish, ornamentation, and higher quality stocks. The barrels are of the highest quality, hand finished to insure uniformity of patterns. The stocks are richly figured walnut, hand finished in oil, full pistol, half pistol, or straight grip as desired, and with any dimensions. The checkering on grip, panels, and forend is the best. The frames are engraved with game scenes and scroll work of rare beauty. All are regularly equipped with Automatic Ejectors. Barrels are 26 to 32 inches, with any type of boring desired. Weights run 12 Gauge, 6¾ to 8 pounds; 16 gauge, 5¾ to 7 pounds; 20 Gauge, 5½ to 6¾ pounds.

Fox CE Grade Shotgun.....	**$117.00**
Fox XE Grade Shotgun.....	**200.00**
Fox DE Grade Shotgun.....	**300.00**
Fox FE Grade Shotgun, to order only.....	**525.00**

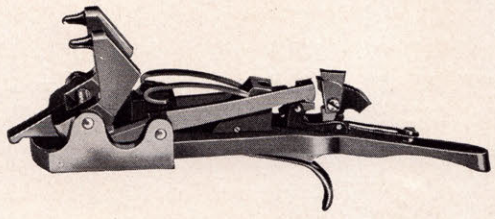
The following "extras" are furnished to order on CE, XE, and DE Grades: Single Trigger, Ventilated Rib. Beavertail Forend, Lyman Ivory Bead Sights. On the FE Grade any of these extras will be furnished without extra cost.

Fox Double Hammerless Trap Guns. Trap Grade. 12, 16, or 20 Gauge. Barrels of high quality forged steel, proof tested, ventilated rib, 30 or 32 inches long, with special trap boring, both full choke. Action, two trigger, automatic ejectors, with handsome scroll engraving. Stock and beavertail fore-end of selected walnut, carefully checkered, full pistol grip, Monte Carlo comb, 1½" x 1½" x 2", 14 inches long. Price **$140.00**

Extra to order: Fox-Kautzky selective single trigger.

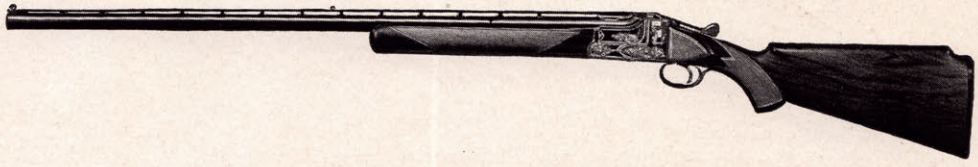
EXTRAS ON FOX GUNS—FITTED TO NEW GUNS

Fox-Kautzky Selective Single Trigger	**$21.00**
Ventilated Rib—A, AE, HE, CE, XE, or DE Grades	**34.50**
Set of Ivory Bead Sights, any grade	**1.10**
Soft Rubber Recoil Pad, any grade	**5.00**
Beavertail Forend—SP, SPE, or Sterlingworth Skeet	**13.00**
Beavertail Forend—A, AE, or HE Grade	**16.00**
Beavertail Forend—CE Grade	**20.00**
Beavertail Forend—XE Grade	**21.75**
Beavertail Forend—DE Grade	**26.00**
Cast-off Stock, add	**5.50**
Monte Carlo Comb, add	**8.00**



Fox-Kautzky Selective Single Trigger. Simple and strong. Because of a new patent sear block it cannot double. There is no part that can wear or break, and it will always operate as intended and never balk. There is no creep possible. It has forced release properly timed for second shot which can be felt even through a heavy glove. It is perfectly selective at all times, and when one barrel only is fired and the gun reloaded, trigger returns to original barrel without any attention from the shooter. Fitted to any Fox gun, old or new **$21.00**

FOX SINGLE BARREL TRAP GUN



The Fox Single Barrel Trap Gun incorporates the latest, improved type of stock and forend. The frame has been redesigned to extend the top rib line back across the frame to the shooters eyes, giving perfect sighting alinement. The standard stock is made to the following dimensions: Full pistol grip, Monte Carlo comb, 1½" x 1½" x 2" drop, 14" long. Recoil pad optional. Stocks to any specifications on special order without additional charge.

J Grade: Automatic Ejector, 30 or 32" barrels, ventilated rib, stock of selected walnut, attractively checkered, and action nicely engraved, Lyman sights, weight 7 lbs. 6 oz. to 8 pounds. Price **$140.00**

M. Grade: Same as above, but a built to order gun, superbly finished in every way, stock of the finest figured walnut, action beautifully engraved and inlaid with gold. Any stock dimensions. Price **$525.00**

SAVAGE AUTOMATIC SHOTGUN

Made in 12 gauge with 26, 28, 30, or 32 inch barrels, and in 16 gauge with 26, 28, or 30 inch barrels. Pistol grip stock with stock and forearm checkered, dimensions 14″ x 1¾″ x 2⅝″. Push button type safety in rear of trigger. Two types of this shotgun can be furnished. The "Standard Design" has five shot capacity, four in magazine and one in chamber. The "Upland Sporter" design has a capacity of one shell in chamber and two in magazine. Both designs are the same price, state which is desired. Barrels can be had full, modified, or cylinder bore. Compensators can be fitted.

Models 5 shot	Models 3 shot		
No. 720	No. 726	With plain barrel	**$37.50**
721	727	With solid raised matted rib	**45.50**
722	728	With raised ventilated rib	**54.50**
720C	726C	With round 20″ barrel and Cutts Compensator, 12 gauge only	**51.75**
	740C	Skeet Model, 20″ barrel, Cutts Compensator, beavertail forend, receiver engraved	**58.00**

Can also be fitted with Poly Choke at same price as for Cutts Compensator.

—Stevens Shotguns—

Stevens has always catered to those who desire a low priced arm. Their many years of experience in such manufacture has resulted in a steady increase in the strength and durability of their materials, and excellence of manufacture, so that today the sportsman gets more in honest workmanship coupled with safety and durability than he will elsewhere for an equal investment.

STEVENS DOUBLE BARREL SHOTGUNS

All Stevens double guns have case hardened frame, hammerless coiled spring action, and matted rib. Stocks are approximately 14 inches long with a drop of 2⅝ to 3 inches at the heel. All 12 gauge 32″, and all .410 bore guns are furnished with full choke in both barrels. All other guns have right barrel modified and left barrel full choke as standard. On special order guns will be furnished with right barrel cylinder and left modified choke, or both barrels cylinder without extra charge.

No. 530 Lyman ivory sights, pistol grip cap, Jostam recoil pad, 12 gauge, 26, 28, 30, or 32 inches; 16 gauge, 26, 28, or 30 inches; 20 gauge, 26 or 28 inches; .410 bore, 26 inches **$27.95**

No. 530 ST. Same as No. 530 but fitted with non-selective single trigger **31.60**

No. 515 Same as No. 530 except plain sights, pistol grip without cap, and hard rubber butt plate **25.00**

No. 515 ST. Same as No. 515 but fitted with non-selective single trigger **28.85**

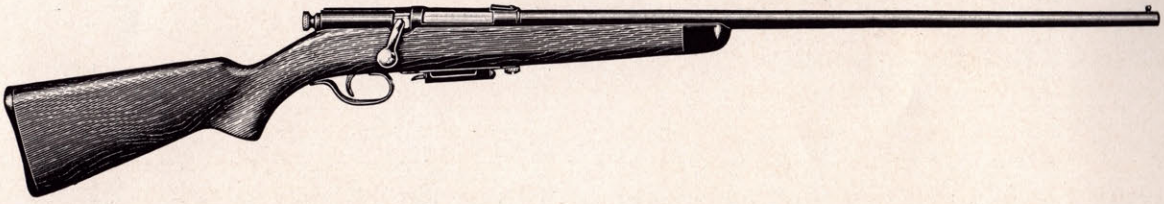
No. 500 Skeet Gun. 12 and 16 gauge 26 or 28 inches, 20 gauge 26 inches. Special Skeet boring. Oil stock finish, capped pistol grip, hard rubber butt plate, beavertail forend, non-selective single trigger **33.75**

STEVENS REPEATING SHOTGUNS

No. 620 Hammerless, slide action, side ejection, takedown, Pistol grip stock of walnut, grip and forearm checkered, rubber butt plate, length 13¾ inches, drop at heel 2¾ inches. Weight 6 to 7¾ pounds. 12 gauge, 28, 30, or 32 inch, full choke, 28 or 30 inch, modified, 26 or 28 inch, cylinder bored. 16 gauge, full, modified, or cylinder bore, 26 inch cylinder bore. 20 gauge, 26 or 28 inch, cylinder, modified, or full choke. 5 shots, a plug to reduce the capacity to 3 shots being furnished. Price **$29.75**

No. 621. Same with raised matted rib **33.75**

STEVENS BOLT ACTION .410 BORE SHOTGUN



Four shots, one in chamber and three in detachable magazine. 24″ barrel for .410 bore, 3″ shell. Full choke. Takedown. Pistol grip stock. Hard rubber butt plate, weight about 5½ pounds. Price, No. 58 ..... **$12.35**

Same but single shot, No. 54 ..... **7.25**

STEVENS SINGLE BARREL SHOTGUNS

All have top snap action, rebounding hammer, American walnut pistol grip stock, hard rubber butt plate, case hardened frame, takedown. All barrels are full choke.

No. 107. Automatic ejector. In the following gauges, lengths of barrel, and lengths of shell only:

12 gauge.	28, 30, 32, 34, and 36 inch.	2¾″ shell.
16 gauge.	28, 30, and 32 inch.	2-9/16″ shell.
20 gauge.	26, 28, 30, and 32 inch.	2¾″ shell.
24 gauge.	28, 30, and 32 inch.	2½″ shell.
28 gauge.	28, 30, and 32 inch.	2½″ shell.
.410 bore.	26 and 28 inch.	3″ shell.

Weight about 6 pounds. Price **$9.65**

No. 105. Same with plain extractor **9.15**

No. 104. Automatic ejector, featherweight. Weight about 4½ pounds. In the following gauges, length of barrels, and length of shells only:

24 gauge	26 and 28 inches	2½″ shell.
28 gauge	26 and 28 inches	2½″ shell.
.410 bore	26 and 28 inches	3″ shell
.32 gauge (11 mm)	26 and 28 inches	2½″ shell.

Price **$9.65**

No. 102. Same with plain extractor **9.15**

No. 89. Dreadnaught. Extra heavy for heavy loads. Weight 7½ pounds. 12 gauge only. 30 and 32 inch barrels (34 inch barrel 25 cents extra, 36 inch barrel 50 cents extra. Extra heavy frame. Chambered for 2¾ inch shells. Price **$12.75**

No. 116. Automatic ejector, raised matted rib, weight about 6 pounds. 12 gauge, 28, 30, and 32 inch barrels, 2¾″ shell. 16 gauge, 28 or 30 inches, 2-9/16″ shell. 20 gauge, 28 inces, 2¾″ shell. Price **$15.00**

— Browning Shotguns —

The late John M. Browning of Ogden, Utah, was the leading firearms inventor of the world. He designed most of our successful repeating and automatic rifles, shotguns, and machine guns. For many years he sold his inventions to the leading arms manufacturers of America and Europe. He organized the Browning Arms Company to manufacture what he considered to be his best models. This company, still controlled by his family, has its factory in Belgium, and produces arms well worthy of the name of Browning.

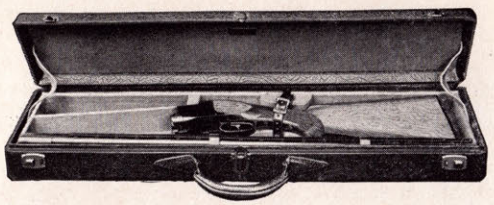
BROWNING OVERUNDER GUNS

12 gauge only. A high grade, recognized, and dependable over and under shotgun. Fitted with celebrated "Browning Twin-Single Trigger." The front trigger fires the under barrel first and the over barrel second; the rear trigger fires the over barrel first and the under barrel second. Made of the very best materials and workmanship throughout. Choke as desired.

Lightning Model 26 or 28 inches. Weight 6¾ pounds. Without rib but with striped matted barrel.

Price **$75.80**
Same with concave matted rib **79.80**
Same with ventilated rib **89.90**
Standard Model. 30 or 32 inches with raised matted rib **79.80**
Same with ventilated rib **89.90**
Pigeon Grade. Raised matted or concave rib ... **143.00**
Pigeon Grade. Ventilated rib **158.00**
Diana Grade Raised matted or concave rib **200.00**
Diana Grade Ventilated rib **218.00**
Midas Grade Raised matted or concave rib **285.00**
Midas Grade Ventilated rib **305.00**
Extra for Browning Single Selective Trigger ... **17.75**
Extra for Browning Single Non-Selective Trigger **17.75**
Extra for ordinary double trigger if desired **5.00**
Extra for beavertail forearm **15.75**
Extra for stocks to special dimensions on new Standard and Pigeon Grade Guns **17.50**

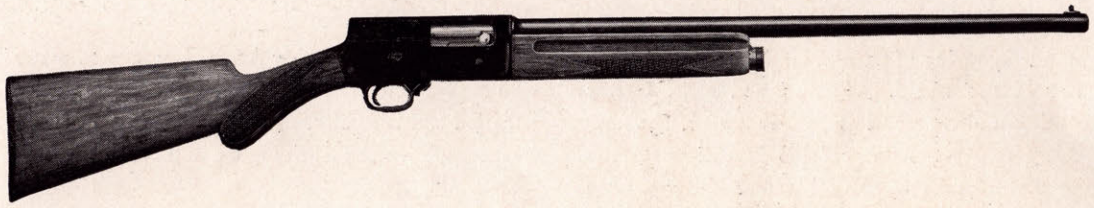
GUN CASES FOR BROWNING OVERUNDERS



Hand made, color black or brown, dragon machine grained to prevent marring, all seams hand-sewed, all edges rounded, sides and ends of case constructed of northern basswood, top and bottom 3-ply northern basswood, reinforced inside with steel angles, hand made leather handle all hand-sewed, two mahogany steel snap locks, one on each side of handle, and center snap. Inside lined throughout with soft but durable dark fabric. Leather straps hold both gun and barrels securely in position to prevent rattling and rubbing. Supplied with brass plate for your name and address. In ordering state gauge of gun, type, barrel length, and stock specifications.

Model S. Genuine Leather (Black or Brown) **$23.75**
Model SB. Leatherette (Black or Brown) **15.85**
Additional for special case to accomodate special stock or beavertail forearm **5.50**
Chamois Covers, per set **5.00**

BROWNING AUTOMATIC SHOTGUNS



Made in 12 or 16 gauge and in two models—5-shot Model, and 3-shot Model. In design, material, and quality of workmanship the two gauges and models are identical. Both have walnut stocks and forearms, hand finished and hand checkered. Both have the same specially prepared steel barrel and hand fitted action parts. The only differences are in size and weight. The 16 gauge is chambered for shells up to 2 9/16 inches, weight about 7 pounds. The 12 gauge is chambered for shells up to 2¾ inches, weight about 8 pounds. Stock specifications are—half pistol grip, drop at comb 1¾ inches, drop at heel 2¼ inches, length of stock, 16 gauge 14¼ inches, 12 gauge 14½ inches.

Barrel lengths: 12 gauge, full choke, 30 inches standard, optional 28 or 32 inches. Modified, 28 or 30 inches. Improved cylinder 26 or 28 inches Cylinder bore, 26 or 28 inches.

Barrel lengths: 16 gauge, full choke, 28 inches standard, optional 30 inches. Modified, improved cylinder or cylinder, 26 or 28 inches.

When ordering be sure to give Grade, Gauge, Barrel Length, Choke or Bore, and whether 5 or 3 shot Model is desired. The difference in price of Browning Special and Grades 3 and 4 (both 12 and 16 gauge) is due to extra finish, selected wood, extra hand fitting, extra hand engraving, and Green or Yellow Gold inlay.

Prices. Either 12 or 16 Gauge. Either 5 or 3 Shot.

Grade 1. Without rib	**$45.50**
Grade 2. Without rib, hand engraved, with attractive foliage design same as Browning Special	**53.50**
Browning Special: with raised matted hollow rib and attractive foliage design engraving	**53.50**
Browning Special: Same with ventilated rib	**59.60**
Grade 3. Without rib	**148.50**
Grade 4. Without rib	**235.25**
Extra for raised matted hollow rib	**8.00**
Extra for ventilated rib	**14.10**
Extra for stock to special dimensions, Grades 1, 2, or Browning Special	**15.65**

Stocks to special dimensions (except with cheek piece) on new Grade 3 and 4 guns at no extra charge.

Browning Gun Cases

For Browning Automatic Shotguns. Same as for Browning Overunders. See above for specifications.

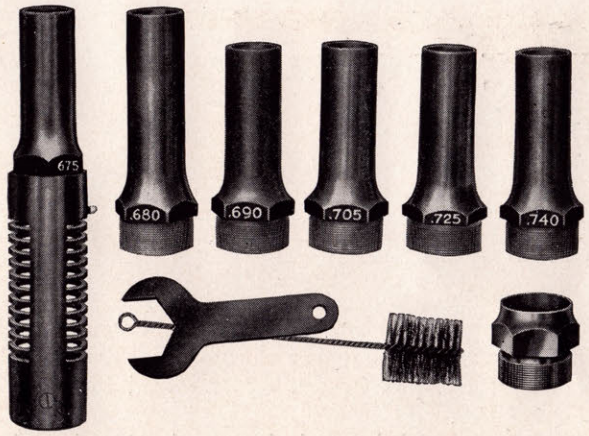
Model A. Automatic, Genuine Leather	**$19.95**
Model B. Automatic, Leatherette	**13.85**
Additional for 2-barrel case or for special cases which are necessary when drop at heel exceeds 2¼"	**4.75**

IVER JOHNSON SKEET-ER SHOTGUN

Double barrel hammerless. .410 bore and 20, 16, and 12 gauges. Plain extractor or automatic ejector. Barrels 28 inches with option of 26 inches. .410 bore has straight grip with option of pistol grip. 20, 16, and 12 gauges have full pistol grip with option of straight grip. Pistol grips are rubber capped. The .410 bore is chambered for 3 inch shells with option of 2½ inch. Stock and forend of selected, fancy figured black walnut, laquer finish and checkered by hand. Stock 14⅛ inches long with about 2⅝ inches drop at heel, with hard rubber butt-plate. Forend of large hand filling skeet design. Lyman No. 10 ivory front sight. Automatic safety with option of independent safety. Blued frame. Unless automatic ejector and barrel lengths are mentioned we reserve the right to ship plain extractor and either 28" or 26" barrels.

Price with plain extractor	**$38.50**
Price with automatic ejector	**48.50**
Miller single trigger, non-selective, extra	**14.00**
Miller single trigger, selective, extra	**17.50**
Additional ivory sight, extra	**0.50**
Jostam Anti-Flinch Recoil Pad, extra	**1.50**

CUTTS COMPENSATORS FOR SHOTGUNS



Cutts Compensators can be applied to any single barrel gun of the single shot, repeating or auto-loading types in 12, 16, or 20 gauge. It is secured to the muzzle of the gun as shown above, and it operates to very greatly reduce the recoil and jump of the gun. In addition, and quite as important, it permits the shooter to vary his pattern or choke at will by fitting the tube which gives the required degree of choke. Pattern Control Tubes as follows can be furnished:

No. 1675. For longest range duck and goose shooting. Closest choke.
No. 2680. Very full choke, 40 to 65 yds. with heavy loads.
No. 705. Corresponds to the standard full choke.
No. 725. Corresponds to the standard modified choke.
No. 740. General purpose, all around up to 50 yards.
Spreader Tube: Close range shooting up to 30 yards, brush and Skeet shooting.

The compensator is regularly furnished with only two tubes. Specify which tubes are desired. Write us for special folder on compensators.

Prices

Cutts Compensator, including 2 Pattern Control tubes, case for tubes, cleaning brush, wrench, and Lyman silver bead front sight	**$18.50**
Attaching compensator to plain or solid rib barrels	**3.50**
Attaching compensator to ventilated rib barrels	**10.00**
Additional Pattern Control Tubes to give other chokes ..... each	**3.00**

NOTE: For the present complete guns must be sent to the factory to have Compensators attached.

Section VIII

Cleaning and Preserving Implements and Materials

Method of Cleaning Rifles, Pistols and Shotguns

By Colonel Townsend Whelen

AS A result of long experience the following one best and easiest method of safe cleaning of the bores of rifles, pistols, revolvers, and shotguns has been developed using the implements and materials hereafter listed. It is always safest to clean the bore of the weapon not later than the evening of the day on which it was fired, and this is particularly necessary when ammunition loaded with a primer other than "non-corrosive" is used or when Lesmok powder is used. For convenience the process of cleaning is divided into five operations.

1. Saturate a flannel patch with powder solvent and place it on the proper tip of the rod. Insert the tip and patch into the breech of the barrel. The patch should be of such thickness that the patch and tip fill the bore fairly snugly, but never very tight so that it takes a pressure of approximately 2 to 4 pounds to press the rod through the bore. Rest the muzzle on a sheet of paper placed on the floor or ground. Push the rod down until the tip touches the floor, but does not extend beyond the muzzle. Then pull tip and patch up to chamber and continue to push down to the floor and pull back to the chamber several times. This is what is meant by "swabbing" the bore. Then pull the rod out and discard the dirty patch. If the gun cannnot be cleaned from the breech, clean and swab it thus from the muzzle, holding the sides of the rod away from the muzzle with the fingers so the muzzle will not be worn by the friction of the rod.

2. Unscrew the patch tip from the rod, screw on a brass wire bristle brush (Tomlinson cleaner for shotgun) and run the brush all the way through the bore and out the muzzle end and then pull it all the way back again, without reversing the brush in the bore (which would injure the brush). Run the brass brush back and forth three times for a rifle or pistol. For the shotgun you can scrub the bore back and forth as necessary to remove lead, using the Tomlinson cleaner. This operation should be done while the bore is wet with the powder solvent used in operation one and it loosens all the caked and sticky powder fouling and also lead in shotguns. This operation is hardly ever necessary with .22 caliber rim fire rifles or with revolvers using lead bullets.

3. Again screw the patch tip on the rod and swab with a flannel patch saturated with powder solvent. This washes out the powder fouling and lead loosened by operation two.

4. Wipe the rod dry and clean, and using dry, clean fiannel patches, swab the bore until it is clean and dry. About four to six flannel patches will be necessary. With some powders the patches will seldom come out clean, being stained by the graphite incorporated in the powder. Disregard this graphite stain. An examination of the bore in a good light should now show it clean and dry.

5. Swab the bore with a flannel patch saturated with gun oil. The weapon is now clean and can be safely set aside for from 2 days to a month depending upon how damp the climate is.

Before firing again, swab the bore and chamber with a clean dry flannel patch to remove the oil. Oil in the bore causes the first two shots fired therein to strike a trifle wide of the mark. Oil in the chamber increases breech pressure. To fire a rifle or gun with heavy grease in the bore or chamber may completely ruin the barrel and even cause it to burst.

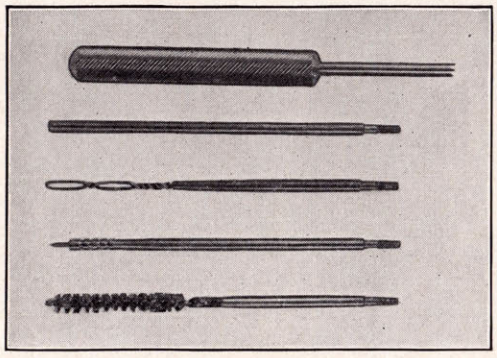
To protect for longer periods: After operation five wipe the bore dry with a flannel patch, then saturate a patch thoroughly in RIG and swab the bore with it, leaving a heavy, even coating of RIG in bore and chamber. Always wipe this coating of RIG out completely before firing again.

Care of Action. Whenever necessary, and often in a damp climate, wipe the various accessible portions of the breech action off with a dry rag and then with a rag slightly saturated with gun oil. The mechanism must be lightly oiled to operate smoothly, but too much oil interferes with ignition. In arctic cold wipe the mechanism dry and lubricate with GUN SLICK which does not congeal.

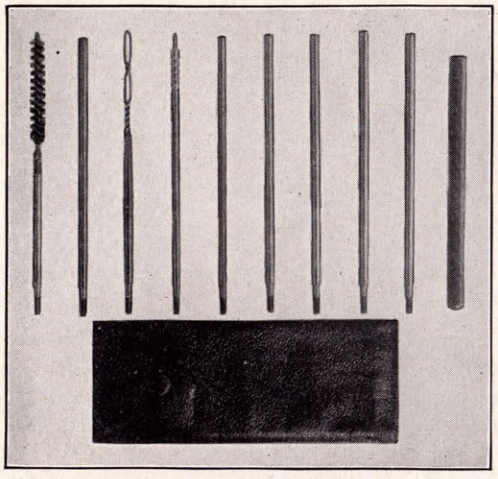
Care of Exterior: Sweat and dampness soon disfigure and rust the exterior of a gun. After use wipe the exterior off dry, then saturate a piece of soft cloth in SEAL-S-TEEL and wipe with this, allowing it to evaporate dry on the gun before handling. Occasionally rub National Stock Polish on the stock.

BELDING & MULL STAINLESS STEEL CLEANING RODS

These are the best rifle and pistol rods made. Constructed of stainless steel which will not rust. In cleaning, grit and abrasives stick to the softer metal (the barrel) and cut the harder metal (the rod). They are stiff, straight and strong. All have knurled steel indestructible handles and are made in two diameters of rods, .203″ for .25 caliber and smaller and .250″ for .30 caliber and larger. Each rod is regularly supplied with four tips—A Mull jagged centering tip for



flannel patches, a double slotted tip for flannel patches, a flat and push tip for calibrating with lead bullet and for removing obstructions and a wire brush adapter with one brass wire bristle brush. Extra interchangeable tips for



any caliber from .22 to .45 can be obtained. The standard length of these rods is 36 inches, but they can be had in other lengths at slight additional charge.

Type A, one piece rod 36″ long, for home and shop use, complete with four tips, .22 to .45 caliber.. **$2.00**

Type A2, two piece rod, 36″ long, convenient for rifle case, complete with four tips, .22 to .45 cal. with leatherette case **$2.15**

Type B, three piece rod, 36″ long, the usual jointed rod, with four tips and leatherette case, .22 to .45 caliber **$2.50**

Type C, rod with 6 sections of 6″ each, small handle very compact, best for the hunters kit and can be fitted into rifle butt under trap butt-plate, complete with four tips and leatherette case..... **$2.65**

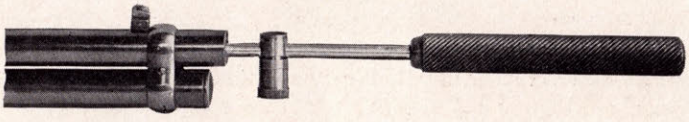
Revolver and Pistol Rods

By choosing a small Type C handle and an assortment of 6″ sections and tips, A B & M Stainless Steel Cleaning Rod of any desired length for a revolver or pistol can be had.

Component Parts of Rods

The prices of the component parts of B & M Stainless Steel Cleaning Rods are as follows: Adaptors, 30 cents, Mull tips 40 cents, Double Slotted tips 30 cents, Push Tips 30 cents, Small Handles 50 cents, 6″ Sections 20 cents. Always state the caliber desired when ordering cleaning rods or parts.

Stop Collar for B & M Rods



Designed to be attached to a cleaning rod to limit the forward swabbing stroke, so that the patch will not emerge from the muzzle or chamber of the barrel and drop off causing delay and inconvenience. State whether for .203″ of .250″ diameter of rod. Price..... **50 cents**

Brass Wire Bristle Brushes

For loosening powder fouling and lead in the bores of the rifles, revolvers, pistols and .410 bore shotguns, thread correct for B & M rods above. All calibers from .22 to .45, price for two..... **25 cents**

Note: When used for cleaning operation No. 2, and not reversed within the bore, one of these brushes will last for about 25 cleanings.

Shotgun Cleaning Rods and Implements

Cleaning Rod, cherry wood, three joint with polished brass trimmings, 10 to 28 gauge, price .... **$ .75**

Cleaning Rod brass tubing, cocabolo handle, three joint, 10 to .410 gauge, price **$1.50**

White wool swab (for final oiling), 8 to 28 gauge, price ..... **$ .25**

Steel Wire Brush (for use with flannel patch) 8 to 28 gauge, price ..... **$ .25**

Double Slotted Tip (for use with flannel patch folded across its length), 8 to 28 gauge, price .... **$ .25**

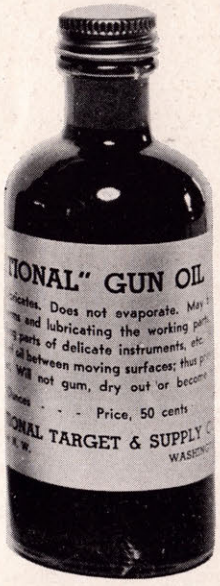
Tomlinson Cleaner (best and safest for removing lead), with one extra pair of slides, 8 to .410 gauge, price ..... **$ .50**

Extra Brass wire Slides for Tomlinson Cleaner, all gauges, price per pair ..... **$ .25**

B & M Adaptors, for use in adapting B & M rifle cleaning rods to use any of the above shotgun implements, price ..... **$ .75**

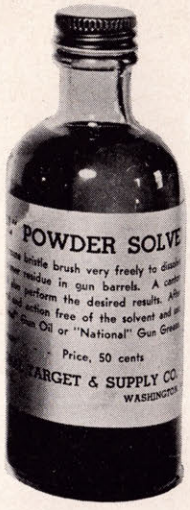
Note: B & M Stainless Steel Cleaning Rods with .44 cal. tips and .44 cal. brass wire rifle cleaning brushes are just right for cleaning .410 bore shotguns.

CLEANING AND PRESERVING MATERIALS



National Gun Oil, for lubricating actions and locks on rifles, revolvers and American shotguns, for preventing rust in the bore for a moderate period and for oiling the exterior of all weapons, a first rate general lubricant.
4 ounce bottle, price ..... **35 cents**

Hoppe's Powder Solvent No. 9, a very successful and efficient powder solvent for removing powder fouling from the bores of guns, 3 oz. bot., price ..... **35 cents**



National Powder Solvent, for quickly removing powder fouling from the bores of guns. The oldest powder solvent. Has been used under laboratory supervision for over 35 years and has always given perfect satisfaction,
4 oz. bottle, price ..... **35 cents**

RIG Rust Inhibiting Grease. There are many rust preventive greases that will protect a clean steel surface from rust for a few months and most of them require gasolene to remove them. RIG is the only grease we know that swabbed over the fouling of chlorate primers will prevent rust for several weeks, that swabbed thoroughly over a clean, dry, steel surface will prevent rust for many years and that can always be easily removed with a dry cloth or a dry cleaning patch.
Packed in cans and easy to use, price per can ... **50 cents**
In tubes, price per tube ..... **25 cents**

Seal-S-teel. Rubbed on the exterior of a gun, the volatile materials evaporate in a few minutes, leaving a thin, invisible, rather hard rust preventive coating, that is extremely difficult to rub off with hands or clothing, but can be rubbed off easily with thin oil or gasoline. The very best outside protection for guns in either constant or periodic use for range, hunting field or duck blind. Protects finish from field or shop wear. A compound that once used by shooters, will always be used. Packed in convenient 3 oz. cans with spout, price per can.... **35 cents**

Gunslick. An excellent graphite lubricant for breech actions of rifles, repeating shotguns and automatic arms. Builds up a smooth film that lasts. Should always be used in place of oil in actions in zero weather, price per tube ..... **25 cents**

NATIONAL CLEANING PATCHES

Cut to proper size from canton flannel selected for strength and cleaning properties. Packed in boxes containing 150 patches in .22 cal., 100 in .30 cal., 75 in .38 cal., 50 in 20 gauge and 30 in 12 gauge, state caliber desired, price per box..... **25 cents**

Section IX

Miscellaneous Equipment and Accessories

We list here only the best, most usually required and most popular equipment and accessories for shooters. We can, however, furnish all types and kinds of standard equipment. If you do not see what you desire in the following pages, write to us. Our gun shop is also prepared to quote on much special equipment made to order. In addition, we are prepared to completely equip both large and small hunting or exploring expeditions to all parts of the world with everything needed.

SPOTTING SCOPES AND BINOCULARS

Every outdoorsman needs a spotting scope or binocuar and often he can employ both with considerable advantage. A good spotting scope is very necessary piece of equipment for the rifleman. The small bore rifleman must have one to spot the bullet holes in the 50 and 100 yard targets to see where his shots are striking, there being no other method of marking these targets. He also requires the scope at 150, 175, 200 and 300 yards to see the target spotters with which these targets are marked, and which cannot be seen with the naked eye. In addition he uses the scope to judge wind deflection by observing the flow of the mirage.

The big bore target rifleman likewise needs the scope for the same uses. It is as necessary a piece of equipment for him as for his small bore brother.

In addition, all outdoorsmen will have need for a good telescope on many occasions. The big game hunter stalking in Northwestern mountains where the country is open, has his guide carry a spotting scope, while he himself packs a light pair of binoculars. The scope is used to search mountain sides at a long distance for game and examine game at a mile or more to determine if the herd contains shootable males with good heads. Thus, the scope finds much game for the mountain hunter and saves him many useless stalks over very rough country.

Also scopes are always useful for observation at the seashore, in the country, or mountains, or even for astronomical observations.

The value of a spotting scope by no means depends upon its magnifying power as most beginners suppose. It depends more upon a large and well corrected object (front) lens, a well corrected eyepiece and a proper balance between the two. What we want above all other qualities is resolving power, that is, ability to see and define small objects at a distance. Usually high power without a very large object lens gives us a dark field of view, magnifies the dance of mirage and moisture in the air, and, while large objects appear greatly enlarged, small objects like bullet holes, spotters, or deers' antlers are very blurred, or we cannot see them at all. A 50 power telescope with an 8 inch objective would be splendid for observation, but it would weigh 100 pounds and perhaps cost over $2,000.

Clearly, we must compromise in our selection of a spotting scope. It must be light enough and small enough to be conveniently portable and it must not be too costly. From very long years of experience our riflemen have gradually arrived at the best compromise in the spotting scope. It is a telescope with an object lens between 40 and 50 MM (1.6 to 2 inches) and magnifying from 20 to 28 times. On a rifle range in a locality where much mirage or dance occur a power of about 20 diameters is best as a high power would magnify the mirage (heat waves) or dance. In clear and cold air we can utilize 26 to 28 power with advantage. Such a telescope will spot .22 caliber bullet holes in the black bullseye of the target very nicely at 100 yards or .30 caliber bullet holes at 200 yards under any fair condition of light or mirage, or it will spot .22 caliber bullet holes at 200 yards and .30 caliber bullet holes to 500 yards under excellent conditions of light and absence of mirage. We list a number of such telescopes here, from which a choice may be made. Naturally, the more expensive ones show superior construction and better corrected lenses and give superior results. The prismatic spotting scope has a much larger field of view and greater illumination which is a decided advantage under many conditions. These spotting scopes are all of light weight and they close up small enough to be easily carried in the rifleman's dope bag or the hunter's rucksack.

The target rifleman also needs a small stand or tripod for his scope, which will hold it steady and trained on his target, alongside of him as he shoots, and about 8 to 12 inches above the ground. We list several such scope stands of the type which has had the approval of all experienced rifle shooters.

The target rifleman does not have a positive need for a pair of binoculars, or field glass, but these are an obsolute necessity for the hunter rifleman if he would pursue his chosen sport efficiently. He uses them to search mountain country for big game, to determine the sex and size of the

head of game, to discover small game so often hidden by vegetation, contrasting background, or shadow that it cannot be seen by the naked eye. In fact, a 6 foot high moose standing in the forest at 50 yards may be so hidden by leaves or branches that one cannot tell if it is a bull or cow, or if the antlers are good, but a binocular will usually make everything clear.

Everyone knows of the many other uses of the binocular, viewing ball games or races, bird study and general observation of many kinds. A good pair of binoculars will often save a lot of steps, time and trouble and no outdoorsman can afford to be without a good pair.

As with the spotting scope, the excellence of a binocular does not depend upon its magnification, but rather on its resolving power and for some purposes its field of view. Good resolving power is always accompanied by entirely satisfactory light gathering qualities. A binocular is usually designated by two numbers, the first being its magnifying power and the second, the diameter of its object lens in millimeters. Thus a 6x30 binocular is one of 6 power with an object lens 30 MM in diameter. A good general way to judge the resolving power and general optical excellence is to divide the magnifying power into the diameter of the object lens: The result should be at least 3.5. That is, the "exit pupil" should be at least 3.5 MM. Generally speaking. a 5 MM exit pupil is as large as the human eye can avail itself of under usual conditions, because the pupil of the human eye is seldom over 5 MM under any usual conditions where a binocular is used, and while a binocular might have an exit pupil larger than this, only a 5 MM pencil of light would enter the human eye.

As with the spotting scope, the choice of a binocular must be a compromise. A 10x50 binocular would be a very superior instrument optically but it would be so bulky and heavy we would seldom care to be burdened with it, and such a glass is very costly. Long experience has shown that the best compromises are the light, compact, not so expensive binoculars such as 6x30, 7x35 and 8x40. Indeed a 5 MM exit pupil is not essential. An 8x30 glass, for example, gives excellent results. Nor does it pay to spend a lot of time in choosing between these various binoculars. The layman cannot tell any difference between a 6x30 and an 8x40 glass.

As with spotting scopes, the most expensive binoculars are the best. They are more durable, have better corrected lenses, and the lenses do not absorb so much light. The best binoculars in the world are those of Bausch & Lomb, Zeiss and Hensoldt make, all of which we list. But let us say that in an entire lifetime of use for which these makes are constructed, the ordinary layman could tell no difference between these three makes of equal optical characteristics.

These three makes of binoculars are rather expensive, but well worth their cost. In buying a binocular of these three makes one buys for his whole lifetime and that of his children as well. But for those who cannot afford these superb instruments we list other less expensive binoculars, soundly made, excellent optically, plenty good enough for ordinary observation and thoroughly worth their price.

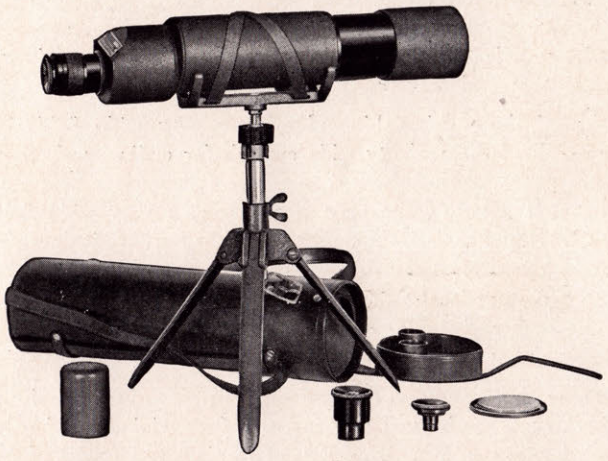
All of these prism binoculars have very wide fields of view—all of them plenty wide enough for ordinary observation. For special purposes, where objects move rapidly, as observing a ball game or a horse race, a very wide field of view is highly desirable. But for other purpose it does not pay to figure too much on the field of view. The best plan is to choose at least a 3.5 MM exit pupil and after that look to the bulk and weight of the binocular and choose the best glass you can afford that meets your needs.

Some binoculars have independent focusing eyepieces where each of the two telescopes is focused independently, each for its own eye. These are convenient when most of the observing is at long distances. Such a glass can be focused for 200 yards and it will be in good focus for your eyes from 100 yards to infinity and this focus is not likely to be disturbed inadvertantly by handling. Also these independently focusing eyepieces are more dust and moisture proof than the other variety.

Binoculars with central focusing eyepieces are more convenient to focus and can be focused more rapidly. At close distances constant change in focus for small changes in distance is necessary. For bird study, or for observing at short and then at long distances, as in a wooded country, the central focusing binocular is much the more convenient. We think that for general purposes the sportsman will be better suited with a central focusing binocular.

The superb, modern prism binocular is a recent invention, dating from about 1893. Before that, all the small hand instruments with a separate telescope for each eye were termed "field glasses." Prism binoculars are far superior to field glasses for observation. They have much wider and brighter field of view, much greater resolving power and are available in much higher magnification. But they also cost about five to ten times as much as the ordinary field glass. While the field glass is not to be compared with the good prism binocular in efficiency, for many years the field glass served us well for observation and of course they continue to do what they have always done. For critical observation of small objects at a distance they are far better than the naked eye. For those who feel that they cannot afford the fine prism binoculars, we list a number of the best field glasses. But conditions have changed. There is now no reason why anyone cannot afford the more desirable and efficient instruments, as, by means of the National Time Payment Plan, he can, for a small down payment, obtain such a spotting scope or binocular at once and pay for it gradually from his savings over a number of months.

BAUSCH & LOMB SPOTTING SCOPES



Prismatic Spotting Scope

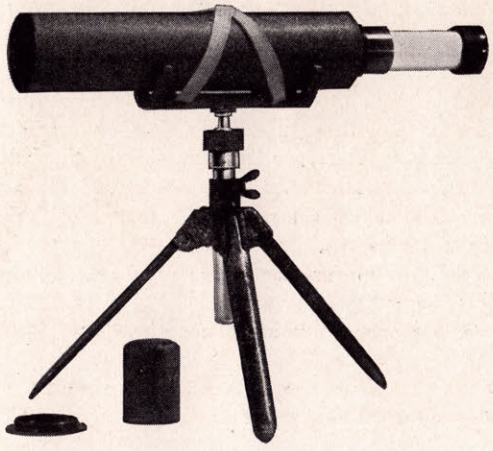
The scope can be focused on objects as near as 30 feet, and can thus be used just as effectively on indoor pistol ranges as outdoor firing lines. The mechanism is a marvel of ingenuity. It will not freeze in cold weather, nor exude grease in hot weather. Major adjustments are accomplished quickly by moving the eyepiece tube in a straight line, while a rotation of the tube results in micro-sharp adjustment of image.

Four eyepieces, giving magnifications of 12.8, 19.5, 26 and 36.5, are available. The 19.5 X eyepiece is recommended for general outdoor range use under average conditions with either this eyepiece or the 12.8 X for indoor pistol and rifle ranges under artificial illumination.

The objective is a highly corrected precision ground lens and is equipped with a sun shade. Both objective and eyepiece are provided with protective metal screw caps to prevent damage while being transported in the shooter's range kit.

Though sturdily built to withstand hard usage, this scope weighs only 36 ounces. It is 13 inches in length completely closed and ready for your kit, and only 15 inches overall in shooting position with sunshade extended—the most compact prismatic spotting scope on the market. The body tube is finished in durable crackle green.

A tan leather case with shoulder strap is available and has space for two extra eyepieces.



For the prone shooter, an all-metal tripod is available, adjustable from 10″ to 14″ in height, and equipped with ball and socket joint for suitable inclination. Bausch & Lomb also offers a tall wood tripod for pistol ranges or for use by the team captain.

The Prismatic Scope

Length ..... 13″
Weight ..... 40 ounces
Diameter of Objective Lens ..... 50 mm

Eyepiece Magnification	*Eye Distance*	*Exit Pupil*	*Relative Brightness*	*Real Field*
12.8X	13 mm	3.9 mm	15.2	3°6′ 16.5 ft. at 100 yds.
19.5X (Orthoscopic)	13.5 mm	2.6 mm	6.55	2°10′ 11.25 ft. at 100 yds.
26X	10.2 mm	1.92 mm	3.7	1°10′ 6.2 ft. at 100 yds.
36.5X (Orthoscopic)	6.9 mm	1.37 mm	1.88	0°50′ 4.4 ft. at 100 yds.

Description	*Catalog No.*	*Code Word*	*Price*
N. R. A. Spotting Scope, equipped with one 19.5X eyepiece	61–41–25–19	*Jaesm*	$55.00
19.5X Eyepiece (Orthoscopic)	61–44–67	*Jaetn*	7.50
12.8X Eyepiece	61–44–70	*Jevib*	6.00
26X Eyepiece	61–44–65	*Jaexs*	6.00
36.5X Eyepiece (Orthoscopic)	61–44–63	*Jaezv*	7.50
Leather case and strap	61–48–05	*Jafax*	7.00
Metal Container for one Eyepiece	61–48–08	*Jafob*	1.50
Draw Tube Spotting Scope	61–41–20	*Jerix*	30.00
Metal Tripod	61–47–29–25	*Jafey*	10.50
Wooden Tripod	61–47–31	*Jagud*	35.00

DRAW TUBE SPOTTING SCOPE

This new erecting type Spotting Scope meets the long-felt want for a medium priced instrument of truly precision manufacture.

Its power is 20X—ideal for all range use—and only one eyepiece is necessary, hence it is non-removable. The field of view is 7½ feet at 100 yards which is ample for the purpose.

One unique feature of this new scope is its minimum focusing distance of 22 feet, thus making it ideally suited to either indoor or outdoor ranges.

Major adjustment is obtained by moving the draw tube in a straight line. Micro-sharp adjustment is accomplished by rotating the knurled portion of the eyepiece. The draw tube

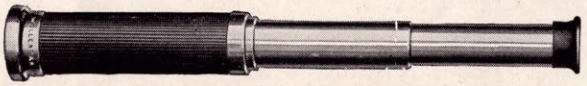
extends far enough to eliminate danger of striking the tripod with one's elbow, and any standard tripod can be used.

The body is of aluminum alloy, durable, and handsomely finished outside in crackle black, inside is *dyed* dull black. The draw tube is chromium-plated for durability and wear. Threaded metal caps seal and protect both eyepiece and objective lenses so that the scope can be safely carried in a shooting kit.

Draw Tube Scope

Size closed	2¼" x 12⅝" overall
Extended	17½"
Draw Tube	4⅞"
Weight	34 oz.
Diameter of Objective Lens	45mm
Diameter of Eyepiece Lens	10mm
Price	**$30.00**
Metal tripod	**$10.50**

WOLLENSAK SCOPES



Telescopes

TELESCOPES enable us to see farther and see more with greater clarity and without eyestrain. They transport the point of interest to your vision instantly.

Wollensak Telescopes have achromatic optics and produce a wide field of view with crispy sharpness, free from objectionable color fringes and distortion usually found in cheaper telescopes.

The draw tubes are chromium plated for permanence and durability. They are mounted in felt which assures smooth-action, true-fitting, and quick, accurate focusing. Each instrument is supplied with leather case.

Specifications

Power	*Diameter of Objective*	*Length Extended*	*Length Closed*	*Field of View at 1000 yds.*	*Weight*	*Price*
6X	⅞"	9¼"	4½"	52 yds.	3½ oz.	**$ 2.50**
10X	⅞"	14¾"	5⅜"	33 yds.	7 oz.	**7.50**
15X	1¼"	18⅝"	6½"	25 yds.	12 oz.	**10.00**
20X	1 7/16"	24⅝"	8"	21 yds.	17 oz.	**12.50**
25X	1 11/16"	30¾"	9"	17 yds.	26 oz.	**17.50**
35X	1 15/16"	38½"	10⅞"	15 yds.	40 oz.	**32.50**
45X	2¼"	46⅜"	12½"	13 yds.	65 oz.	**47.50**

Celestial Eyepiece designed for the 45X Telescope only. Increases magnification to 68X for astronomical work. Price **$9.25**

Dark Glass Filter for solar observations, to fit all Wollensak Telescopes. Price **$2.50**

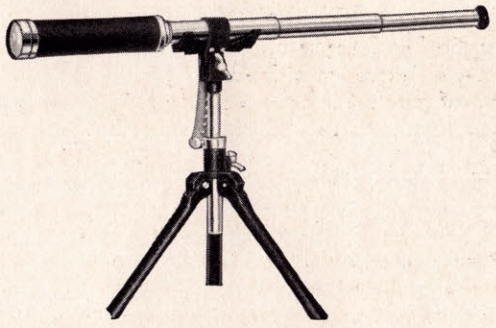
Choice of eyepieces, powers of 15-18-21-25-30 or 35.—Field power 18, 7.5 ft. at 100 yards.—Length 17 inches—Weight 2 lbs., 8 ozs.—Price, with leather case and two eyepieces $100.00.—Extra eyepieces $7.50 each.

No. 2 Clear Aperture Objective 2⅛"

Choice of eyepiece, power 12.5-18-21-25.—Field, 8 ft. at 100 yards at 18 power.—Length 12 inches—Weight 2 lbs.—Price, with leather case and 1 eyepiece $56.00. Extra eyepieces $7.50.

Telescope Clamp

THIS carefully designed clamp will hold practically all telescopes. It is supplied with removable wood screw for fastening to tree, post, etc. Or it may be used on the camera tripod. It has both elevating and panoramic movements and can be locked in any position. Chromium plated. Price **$7.50**



Spotting Scope

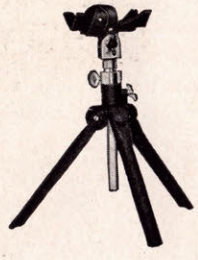
A 20 power scope designed for pistol and rifle shooters who are looking for quality at a reasonable price. It will clearly spot a .22 caliber hole in the black at 100 yards, and at this distance it covers a field of 6½ feet. The Wollensak Spotting Scope will focus as close as 15 feet and therefore it is equally as well adapted to the short indoor ranges.

The spotting scope has three draw tubes which are chromium plated and slide in smooth acting felt that makes for ease and accuracy in focusing. Fully extended it measures 24⅝" and collapsed only 8". It has a thorough, achromatic optical system (freedom from color) that gives good illumination and a crispy, sharp field of view. The objective lens measures 1 7/16" in diameter.

Besides its usefulness as a spotting scope it is also an excellent observation telescope for hunting, at the summer home, camp and general field use.

Supplied with leather case **$12.50**
Price with tripod **20.00**

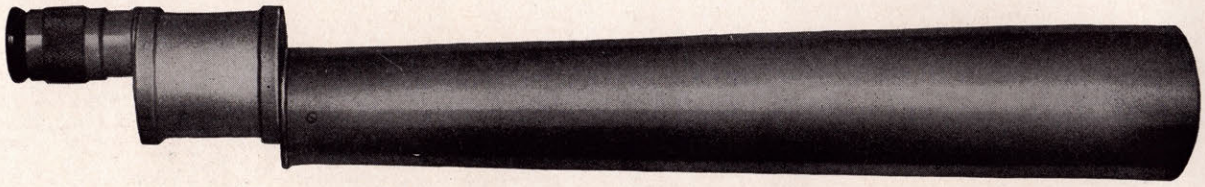
Telescope Tripod



THIS sturdy, well balanced tripod meets with instant favor. Made of aluminum alloy and designed to fit practically all hand telescopes and spotting scopes on the market today. It has both panoramic and elevating movements that may be securely locked in any position. The telescope is quickly fastened to the cradle of the tripod with a strap that holds it securely in position. The height is adjustable from 9" to 14".

Weight 21 oz.; finish, black lacquer and nickel.
Price with genuine leather case **$7.50**

FECKER PRISMATIC SPOTTING TELESCOPES



No. 1 Fecker Prismatic Spotting Scope

Fecker Prismatic spotting telescopes for terrestrial use represent the highest type of American optical instruments.

In designing these spotting scopes for the rifleman's use, the points of greatest importance have been given first consideration, illumination and distinctness of image throughout the field.

To achieve these, the optical parts are computed, ground and assembled with extreme precision. The large objectives are hand figured to insure maximum definition. The workmanship throughout is the same in Fecker large astronomical and other laboratory instruments.

Spotting can be done satisfactorily under adverse light and weather conditions; .22 caliber bullet holes can be seen in the black at 250 yards, .30 caliber holes at ranges of 400 yards.

No. 1 Clear Aperture Objective 2⅛″

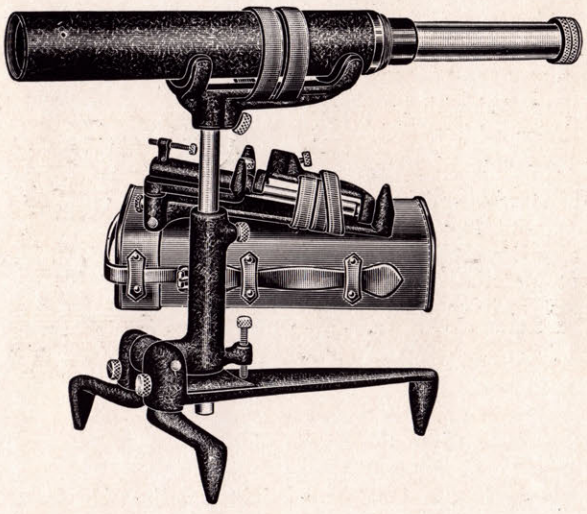
Choice of eyepieces, powers of 15-18-21-25-30 or 35.
Field, power 18, 7.5 ft. at 100 yards.
Length 17 inches—Weight 2 lbs., 4 ozs.
Price, with leather case and 2 eyepieces $62.50. Extra eyepieces $7.50.

Where the shooter intends to do both .22 caliber and .30 caliber work, the eyepieces give a choice of magnifications that suits the observing conditions; the higher power for favorable conditions and the lower powers where it is desired to minimize haze and mirage.

No. 1 Special Spotting Scope with 2½″ Clear Aperture Objective

For long range .22 and .30 caliber spotting under adverse lighting conditions the No. 1 Special Spotting Scope with 2½″ objective, providing 56% more illumination and proportionately greater spotting ability, than the regular No. 1 Spotting Scope, will give exceptional results. The No. 1 Special was designed to meet the demands of shooters for a spotting scope which would perform under the most trying atmospheric and range conditions.

MOSSBERG (MODEL A) "SPOTSHOT" TELESCOPE



A high grade optical instrument, 20 power, designed primarily for a spotting scope for the rifleman, but equally effective for camp, marine, and general observation. Materials of the first quality for light weight and adequate strength; objective lens is achromatic, 38 mm. in diameter, eyepiece is 10 mm.; micrometer adjustment for focus, protective metal caps for both ends; black crinkle finish and chrome plated draw tube; length extended 17 inches, closed 12½ inches, weight 1¾ pounds, field approximately 7½ feet at 100 yards; American materials, American made.

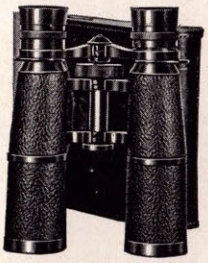
Mossberg (Model A) Folding Stand. Unique in design and decidedly practical; sturdily built of strong aluminum alloy and steel, finished in black crinkle and cadmium plate, screw adjustments for horizontal and vertical; can be used for all makes of spotting scopes; folds to 10″ x 3¼″ x 3″ and weighs only 2½ pounds; stays firmly in position and yet allows adjustments to be made with one hand; adjusts from 9½ to 14½ inches above the ground.

The genuine cowhide case has two compartments to take both spotting scope and folded stand.

Prices

Model A "Spotshot" Telescope	**$16.45**
Model A Folding Stand	**5.50**
Leather Case	**3.95**
Total for all three	**25.90**

HENSOLDT BINOCULARS



Hensoldt binoculars are one of the world's highest grade instruments, equal to any and superior to many. These binoculars have two unique features which recommend them to the outdoorsman. Their straight tubes, made possible by the unique roof prisms, make it much easier to sight over the tubes and then drop the eye into the field, thus finding the object quicker in the field than other glasses with angular tubes. It is possible for a careful person to dismount the glass in its entirety, including the prisms, for cleaning purposes, a very considerable advantage should the sportsman have a canoe upset or fall in fording a river and get his binoculars wet inside.

Hensoldt Universal Dialyt Binoculars. 6 power, 30 mm objective; diameter of field at 1000 yards, 125 yards. Weight, 14 ounces. Price..... **$ 98.00**

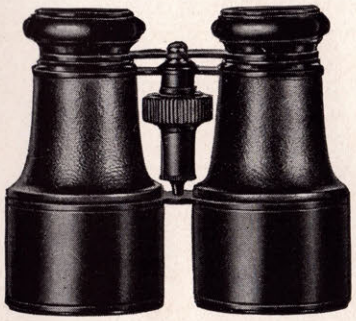
Hensoldt Sport Dialyt Binoculars. 8 power, 30 mm objective; diameter of field at 1000, 100 yards. Weight, 14 ounces. The Ideal Big Game Hunters glass. Price..... **102.00**

Hensoldt Marine Dialyt Binoculars. 7 power, 50 mm objective; diameter of field at 1000 yards, 150 yards. Weight, 28½ ounces. Price **158.00**

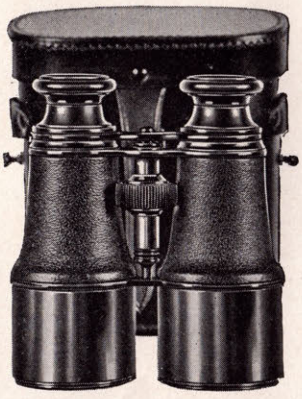
Hensoldt Nacht Dialyt Binoculars. 7 power, 56 mm objective. Price..... **210.00**

S & A MEDIUM PRICED BINOCULARS AND FIELD GLASSES

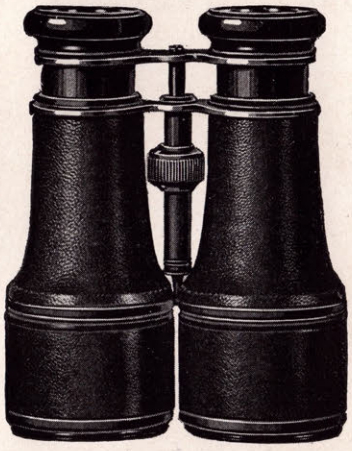
Swift and Anderson, the American agents for Hensoldt Binoculars, have combed the factories of the world for the best medium priced binoculars and field glasses. Of these we have selected the following as being best suited to the needs of our sportsmen. These are honestly made, dependable, and durable glasses with excellent optics for their class.



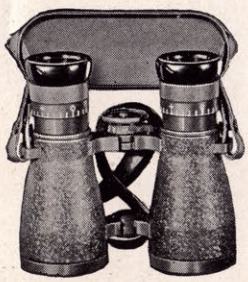
Pilot



Marine



Skipper



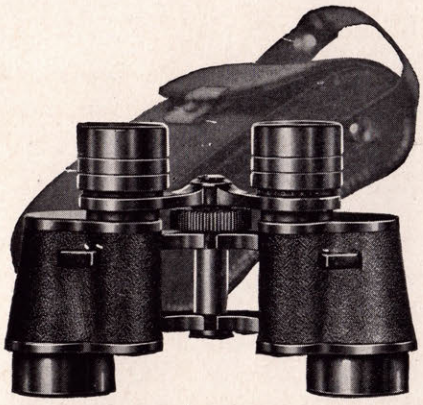
Gray Army

Pilot Field Glasses. 4 power, 45 mm objective; field at 1000 yards, 140 yards. Price..... **$12.00**

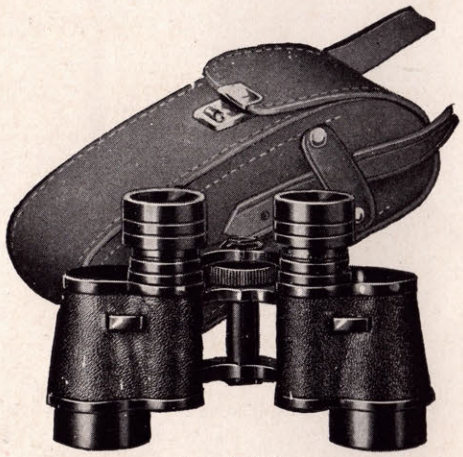
Marine Field Glasses. 4½ power, 40 mm objective; field at 1000 yards, 90 yards. Price **15.00**

Skipper Field Glasses. 6 power, 54 mm objective, field at 1000 yards, 80 yards. Price.. **25.00**

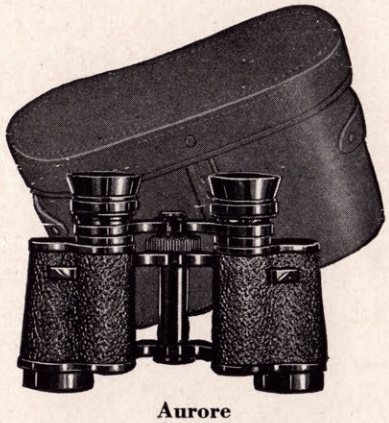
Gray Army Field Glasses. 8 power, 40 mm objective; field at 1000 yards, 45 yards. Price **17.00**



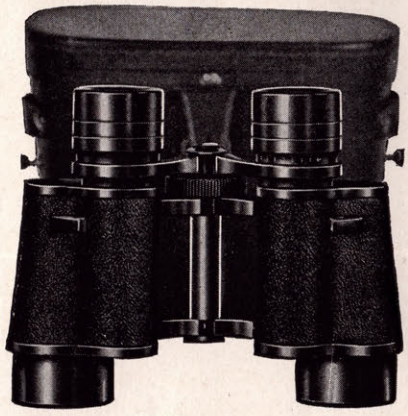
Ascot



Grand Prix



Aurore



Regatta

Ascot Prism Binoculars. 8 power, 30 mm objective; field of view at 1000 yards, 150 yards. Price..... **$36.00**

Grand Prix Prism Binoculars. 8 power, 30 mm objective; field of view at 1000 yards, 145 yards. Price..... **32.00**

Aurore Prism Binoculars. 8 power, 25 mm objective; field of view at 1000 yards, 140 yards. Price..... **25.00**

Regatta Prism Binoculars. 7 power, 35 mm objective; field of view at 1000 yards, 150 yards. Price..... **45.00**

BAUSCH & LOMB BINOCULARS

6 x 30 Binoculars

The new line of Bausch & Lomb instruments sets a new standard in binocular performance. The optical system, improved to the highest point in binocular history, is housed in a new-type moisture and dust tight body, designed and constructed to withstand a lifetime of hard usage.

That Bausch & Lomb binoculars are the favorites of the United States Army and Navy, the most exacting of critics, is testimony of the esteem in which Bausch & Lomb instruments are held.

A complete range of magnifications, from 6 to 10 power, gives a wide choice, so that a suitable glass may be selected for any use to which a binocular may be put.

In resolving power and brightness of field, that is to say in efficiency in observation, the 7 x 50 binocular is conceded to be superior to all others. But one decidedly pays for this efficiency not only in price, but also in the weight and bulk, and few can afford to pay these prices except where optical efficiency is paramount to all other details. For average hunters and sportsmen's use we strongly recommend one of the 6 x 30 binoculars which are small in size and weigh but 19½ ounces.

Each binocular is supplied with a handsome, sturdy, hard leather case, and with carrying straps for both binoculars and case.

A complete 40-page Binocular Catalogue that will help you select the most suitable instrument for your use will be sent on request.

Specifications and Prices

	Power	*Objective Diam. in mm.*	*Exit Pupil in mm.*	*Relative Brightness*	*Field of View in ft. at 1000 yds.*	*Weight in Ounces*	*Price*
Binocular C.F.	6	30	5	25	445	19½	$72.00
Binocular I. F.	6	30	5	25	445	19½	66.00
Binocular C. F.	7	35	5	25	381	26	86.00
Binocular I. F.	7	35	5	25	381	26	81.00
Binocular I. F.	7	50	7.1	50.4	381	42	118.00
Binocular C. F.	8	30	3.8	14.3	445	22	82.00
Binocular I. F.	8	30	3.8	14.3	445	22	76.00
Binocular C. F.	9	35	3.8	14.4	381	26	93.50
Binocular I. F.	9	35	3.8	14.4	381	26	88.50
Binocular I. F.	10	45	4.4	19.4	231	36	105.00
Binocular I. F.	10	50	5	25	272	41	132.00
Sport Glass	2	27.4			843	7	16.00
Companion Field Glass	4	38.1			382	10½	17.50

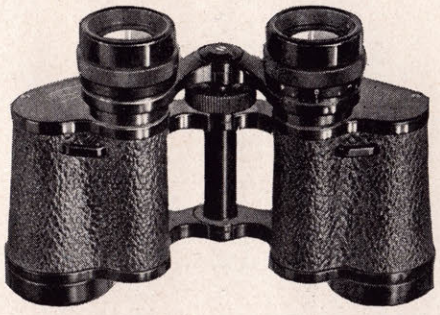
C. F.—Central Focusing Eyepieces.
I. F.—Independently Focusing Eyepieces.

ZEISS BINOCULARS

For over half a century Zeiss binoculars have been the standard of the world, and are better known in all parts of the world than any other make. Their superiority lies in the materials used, the scientific construction, and the workmanship. Individual glasses have been in use in the tropics and arctic for years with invariably excellent results.

For the small or big game hunter we particularly recommend the Silvamar or Silvarem 6X or the Deltrentis or Deltrintem 8X models. The light weight models are particularly attractive. The choice between individual and central focussing is a purely personal one.

On request we will be glad to send a Zeiss catalog giving detailed information. The various models, their optical characteristics, and price are given below.



Deltrintem, 1/3 full size

Model	*Magnification*	*Diam. Objective mm*	*Field at 1000 yds.*	*Light Transmitting Power*	*Weight Ounces*	*Price in tan or black leather cases*
			With Individual Focusing Eyepieces			
Telex	6	24	150	16	19½	$ 62.00
Silvamar						
" Light Weight	6	30	150	25	13	82.00
Binoctar	7	50	128	50.4	40¼	131.00
Deltrentis	8	30	150	14.06	20⅝	78.00
Delactis	8	40	154	25	36¾	121.00
Dekaris	10	50	128	25	43¼	151.00
Telonar	12	40	73	10.9	37	121.00
Telar	18	50	65	7.84	42⅜	172.00
			With Central Focusing Adjustment			
Turolem	4	20	182	25	10	75.00
Telita	6	18	145	9	10	91.00
Telexem	6	24	150	16	19½	68.00
" Light Weight	6	24	150	16	13	82.00
Silvarem	6	30	150	25	21⅜	75.00
Binoctem	7	50	128	50.4	46	137.00
Turita	8	24	110	9	15¾	106.00
Deltrintem	8	30	150	14.06	23½	82.00
" Light Weight	8	30	150	14.06	15	90.00
Delactem	8	40	154	25	42¼	127.00
Dekarem	10	50	128	25	47¼	157.00
Telarem						
" Light Weight	18	50	65	7.84	53	202.00
			Monocular Field Glasses			
Telexmo	6	24	150	16	7	40.00
Simpsilv	6	30	150	25	9	44.00
Binoctarmo	7	50	128	50.4	17⅝	76.00
Turman	8	21	110	6.76	3½	36.00
Deltrintmo	8	30	150	14.06	9⅜	49.00
Delactimo	8	40	154	25	16¾	67.00
Dekarismo	10	50	128	25	19¾	85.00
Telonarmo	12	40	73	10.9	15⅞	67.00
Telarmo	18	50	65	7.84	19¾	91.00

ZEISS THEATER GLASSES

Theatisdu, 3½ power, 15 mm objective. In case with mirror **$75.00**

Teaba, 3½ power, 15 mm objective. In case with mirror **96.00**

ZEISS TELESCOPES

Aseros, variable magnification, 4 to 20 times. 1⅞ inch (48 mm) objective. With case. Price.. **210.00**

Same, with stand or tripod..... **252.00**

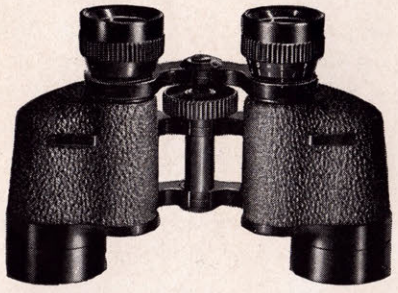
Starmor, three revolving eyepieces with 12, 24, and 42 magnifications. 2⅜ inch (60 mm) objective. With case and tripod. Price..... **336.00**

Starmorbi, same as Starmor, but binocular. Price **630.00**

Asem, three revolving eyepieces with 12, 20, and 40 magnifications. 3⅛ inch (80 mm) objective. With case and tripod. Price..... **500.00**

Asembi, same as Asem, but binocular..... **1,050.00**

WOLLENSAK BINOCULARS

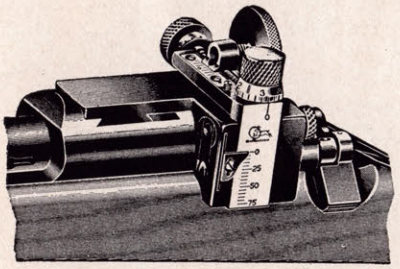


A new glass, 8 power, 30 mm objective, modern streamline design. Prisms permanently aligned. Central focusing. Field of view at 1000 yards—135 yards. Relative brightness —12.3. Brilliant image. Weighs only 18 ounces.

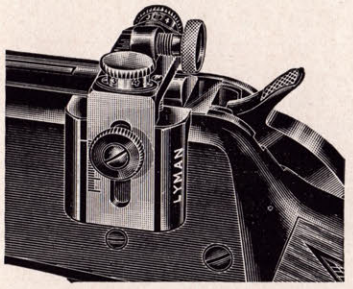
Price **$36.75**

LYMAN RIFLE SIGHTS

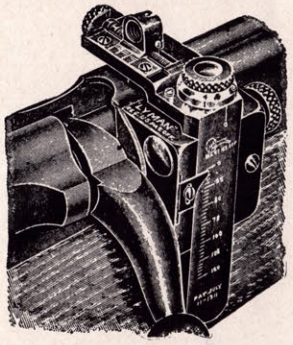
For fifty years Lyman sights have been the standard rifle sights of the world. William Lyman invented the sight that bears his name shortly after the Civil War. We refer to the aperture rear sight with very large aperture and thin rim located close to the eye, which at once proved to be the best rear sight for hunting purposes. Later the demand for a similar target sight resulted in threading the inside of the aperture and screwing a cap disc therein. Still later Lyman sights were redesigned to give micrometer and minute adjustments for elevation and windage. Lyman sights are made for practically all American rifles, and there are models which can be adapted to many foreign and hand made weapons as well. We can supply any of these sights.



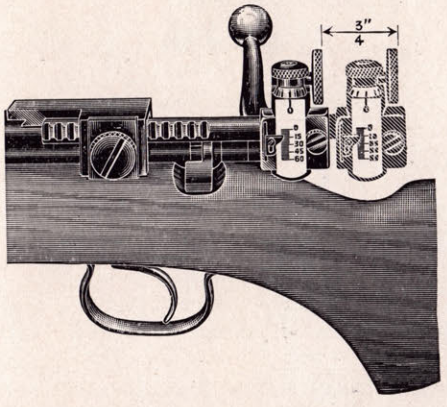
No. 48J on Winchester 52



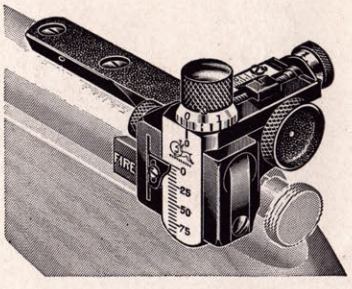
No. 56 on lever and slide action rifles



No. 48 on Springfield



No. 52 Extension on Winchester 52



No. 48Y on Savage 19

RETAIL PRICES OF LYMAN SIGHTS

No. 1.	Combination Rear Sight	$4.00
No. 1A.	Combination Rear Sight	4.50
No. 2.	Comb. Rear Sight with Cup Disc	4.50
No. 2A.	Comb. Rear Sight with Cup Disc	5.00
No. 3.	Ivory Bead Front Sight	1.00
No. 4.	Ivory Hunting Front Sight	1.50
No. 5.	Ivory Combination Front Sight	1.75
No. 5B.	Combination Front Sight	1.75
No. 6.	Leaf Sight	1.75
No. 6.	Leaf Sight for Remington Model 8	2.50
No. 9.	Shot Gun Sights, per set	1.00
No. 10.	Shot Gun Front Sight	.50
No. 10D.	Shot Gun Front Sight	1.00
No. 11.	Shot Gun Rear Sight	.50
No. 12.	Slot Blank	.50
No. 17A.	Target Front Sight with 9 inserts	2.50
No. 20.	Jack Front Sight	1.00
No. 21.	Receiver Rear Sight	5.00
No. 23.	Caterpillar Front Sight	1.75
No. 24.	Jack Front Sight	1.00
No. 26.	Ivory Bead Front Sight	1.00
No. 28.	Semi-Jack Front Sight	1.00
No. 29½.	Windgauge Rear Sight for all Savage Lever Action Rifles	6.00
No. 30½.	Similar No. 29½ with Disc	6.50
No. 31.	Front Sight, Gold or Ivory Bead	1.00
No. 32.	Semi-Jack Front Sight	1.00
No. 33.	Receiver Sight	$5.00
No. 34.	Windgauge Receiver Sight	6.50
No. 35.	Mauser Windgauge Receiver Sight	10.00
No. 36.	Receiver Sight	10.00
No. 37.	Semi-Jack Front Sight	1.00
No. 38.	Windgauge Receiver Sight	6.50
No. 39.	Jack Front Sight	1.00
No. 40.	with Disc for Savage Models 40 and 45	4.00
No. 41.	Windgauge Receiver Sight	5.50
No. 42.	Receiver Sight	3.50
No. 45.	Receiver Sight for Win. 1903, 22 cal.	4.00
No. 48.	for Springfield Rifles	11.00
No. 48K—	for Krag Rifles & Carbines	11.00
No. 48W—	with disc for Win. 54	11.50
No. 48M—	for Mauser Rifles	11.00
No. 48R—	with disc for Rem. .30 Ex.	11.50
No. 48C—	NRA with disc, Springfield	11.50
No. 48T—	with disc for Win. 52 .22 cal.	11.50
No. 48G—	with disc Sav. 19, and Sporters	11.50
No. 48J—	with disc Win. 52	13.00
No. 103.	Micrometer Windgauge Rear Sight	9.00
No. 48L—	with disc for Stevens rifles	11.50
No. 48Y—	with disc for Sav. 19 and Sporters	13.00
Nos. 55W, 55R, 55S, 55J, 55M—	each with disc	2.00
No. 56.	Mic. Wdge. Rear Sight with disc	7.00
No. 52.	Extension Sight	13.00
Front Sight Ramp for Krag, Rus., Spfg.		4.00

No. 30. Counter Display or Salesman complete with Eleven Sights, (Value of Sights only) 30.00

Drills for Receiver Sights, $0.20 — *Prices of Parts on Application.* — Taps for Receiver Sights, $0.30

Disc for sights No. 34, 35, 38, 40, 41, 42, 45, 48, 48K, and 48M, supplied separately or with sight, 50c. each.

When ordering sights please be sure to give make, model, and caliber.

No. 26 Springfield

Lyman Hunting Front Sights

Lyman No. 17A Hooded Target Front Sight

Lyman Target Front Sights

VAVER MICROMETER DIAL SIGHTS

For all Popular Makes of Rifles

The VAVER MICROMETER DIAL SIGHT is an outstanding development and advance in design. This sight offers the shooter absolute accuracy, positive, rapid adjustments, and means for calibrating the sight for any ammunition.

The Vaver Micrometer Dial Sight is engineered to eliminate any possibility of backlash or play in the operating mechanism, by employing a hardened FRUSTO CONICAL SPIRAL LEAD—a new mechanical principle—for both elevation and windage, which mechanism is capable of rendering the finest adjustments.

The elevation dial is graduated into forty ¼ minute clicks, which permits raising or lowering the center of impact ¼ inch at 100 yards for each click. The windage adjustment dial is graduated into twenty ¼-minute clicks for each revolution.

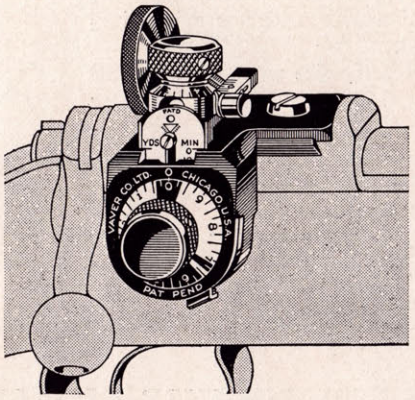
The elevation dial readings are in correlation with the vertical scale plate, which is graduated in minutes, and may also be graduated in yards to conform to the loads of the ammunition used.

The scale plate is interchangeable with plates graduated for other loads. This feature provides the shooter with means for calibrating the sight for any load without changing the zeroing of the rifle.

Quick Removable Staff:—to remove the staff, pull the DIAL outward till the clicker falls under the cam, then pull out the staff. To replace, put the staff in the slide and press the click release, the dial snaps back into position.

VAVER MICROMETER DIAL SIGHT FOR "52" WINCHESTER

For Right or Left Side



This is a standard height sight with short tang, for field or target use. The mounting block is cut with a taper, to drive into dove-tail slot in the receiver and is locked into position with two set screws. The upper face of the block is channeled to receive the tang of the sight that is held with a large coin-slotted screw, making it quickly detachable without changing its zero.

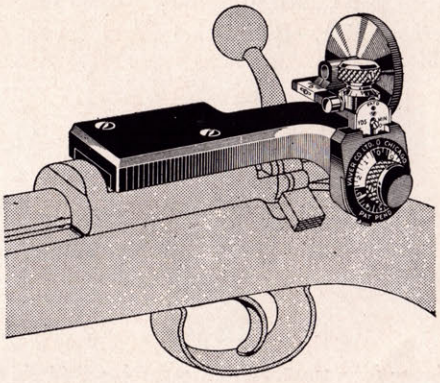
This sight is made in two models—for right side mounting and for left side mounting, and will fit either standard or heavy barrel rifles.

They are equipped with Kit 7A having 7/8" eyecup at $1.50 extra.

35-MIR—for right side..... **$13.50**
35-MIL—for left side..... **13.50**

VAVER MICROMETER DIAL SIGHT FOR "52" WINCHESTER

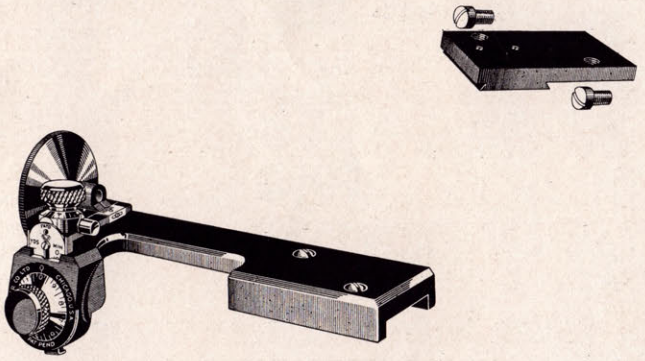
Telescope Height, with Extension for Left Side



This sight mounts on the receiver of the rifle by driving the mounting block into the dove-tail receiver slot. The tang of the sight is channeled and is held onto the block with two screws. The sight clears the bolt, which may be taken out without removing the sight. Equipped with Kit 7A having 1" eyecup as standard equipment.

35-MIELT..... **$15.00**

Telescope Height, with Extension, for 52 Winchester, Right Side



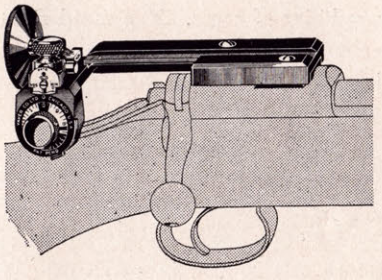
This sight is designed for right side mounting, the tang being 1 1/16" longer than the left side model—to clear the bolt when open. It is illustrated with the mounting block dis-assembled to show method of assembly and attachment.

These telescope height extension sights will fit either standard or heavy barrel, with front sight raised to telescope height using front sight Barrel Band 35-EBB or block 35-XB. Equipped with Kit 7A having 1¼" eyecup as standard equipment. 35-MIERT..... **$16.00**

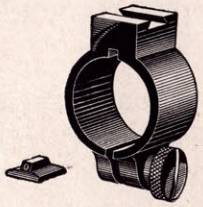
Note: For convenience in adjustment and ease in seeing the graduations right handed shooters usually prefer the sight on the *left* side of the rifle. However, on Springfield, Enfield, Krag, and Mauser rifles it can be placed only on the right side.

VAVER MICROMETER DIAL SIGHT WITH EXTENSION

For Right Side Only



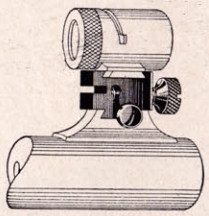
The sight is made in standard height with extension and will fit either the standard or heavy barrel 52 Winchester. 35-MIE..... **$17.50**



Vaver Quick Detachable Barrel Band

This barrel band has a dove-tail slot to receive front sight, bringing it up to telescope height. It is clamped on the barrel and held in fixed position with a locator driven into the dove-tail slot of the barrel.

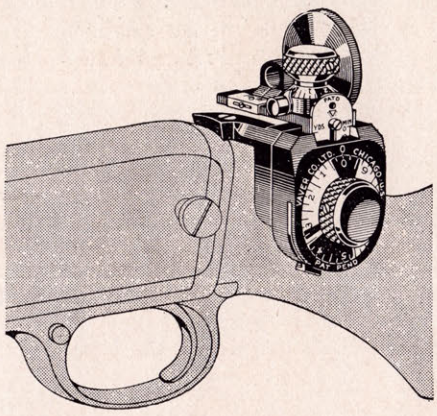
35-EBB-7/8", -15/16" or 1" (Specify size wanted) .. **$4.50**
Larger or Special Sizes .....$1.50 Extra



Vaver Quick Detachable Front Sight Block, for "52" Winchester Standard Barrel

Brings the Front Sight up to Telescope Height for use with Telescope Height Sight. Locks onto dove-tail on the barrel. Has locater so it always comes to the same position. 35-XB **$2.00**

VAVER MICROMETER DIAL SIGHT FOR WINCHESTER 61



This sight mounts on the left side of the receiver, using the holes provided in the rifle for the sight mounting. VAVER MICROMETER DIAL SIGHTS will give full expression to the various ammunitions that may be used in the rifle by marking a separate scale plate in yards for each ammunition. The scale plates being quickly interchangeable, therefore the plate conforming to the ammunition being used eliminates the possibility of error. The rapid sight adjustments make it possible to change from one range to another in a split second, yet maintaining the accuracy required in field shooting.

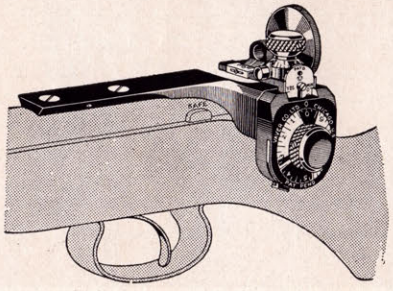
35-M11 ..... **$12.50**

For Winchester 54

This sight mounts on the left side of the receiver without cutting the stock. It is held in place with one screw, for which drill, tap, screw, and a bushing for spotting the drill are furnished with the sight.

35-M2—Winchester 54..... **$12.50**

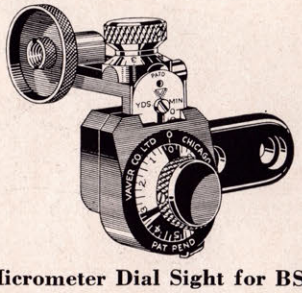
VAVER MICROMETER DIAL SIGHT FOR SAVAGE RIFLES



This sight is designed to fit Savage 1919, N.R.A., 1932 Sporter, and 1933 N.R.A. It mounts on the left side, using screw holes provided for same. The fore-part of the tang is dove-tailed to be utilized as a block for telescope mounting.

Sight on models 99 mount on the tang of the receiver using the holes provided.

35-M4A-1919 NR.A.—1923 Sporter..... **$15.00**
35-M4B-1933 N.R.A.—Bolt action..... **15.00**
35-M4C Models 99..... **15.00**



Vaver Micrometer Dial Sight for BSA Rifles

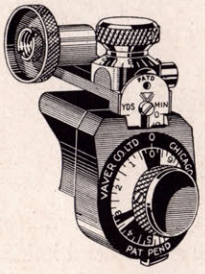
Standard or Telescope Height

This sight mounts on the right side and is held in place with two screws. Permits cleaning of rifle from breech. Tap, drill, and mounting screws are furnished with the sight.

35-MIOS-Standard Height **$12.50**
35-MIOT-Telescope Height **12.50**

VAVER MICROMETER DIAL SIGHTS

For Springfield 30-06 MI, M2, Target



This sight mounts on the right side of the receiver without cutting away the stock. It is held with one 7/32-40 screw, a rugged mounting that will not jar loose. A blind screw is furnished to close the screw hole when sight is removed. 35-M6—Springfields **$12.50**

For Mauser

Mounts the same as on the Springfield 30-06.

35-M9—Mauser **$12.50**

For Remington Special & Express

Mounts on the right side of the receiver.

35-M3—Remington Special & Express **$12.50**

35-M7—Krag—left side **12.50**

For Enfields

Our 35-M6 may be used on Enfields by rounding off the receiver, thus providing the same rugged mounting as on the Springfield 30-06.

VAVER MICROMETER DIAL SIGHT

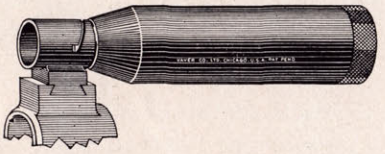
For Ballard

This sight is made for the left side only, in standard height and telescope height, with extension. The sight adapter mounts on the hexagon part of the receiver; the eyecup is 3½ inches back of the end of the receiver, to provide loading room.

35-M12S—Standard height **$15.00**

35-M12T—Telescope height **15.00**

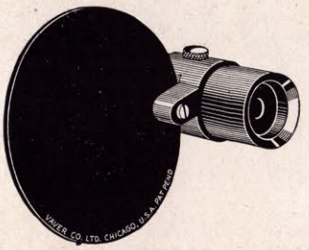
VAVER LIGHT SHADE FOR FRONT SIGHT



This light shade is 3½" long with a ¾" hole, knurled on one end, with the opposite end tapered and threaded, to screw into the front sight, replacing the front sight adapter. When ordering, specify for what make of front sight.

35—LS **$1.50**

Vaver Eye Shield and Telescope Aperture

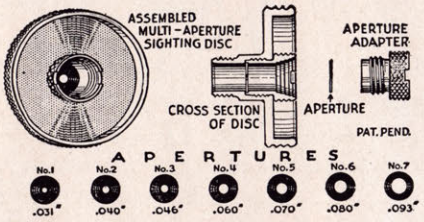


This eye shield and telescope aperture has been found to be a practical necessity when shooting with a telescope. Will fit Target Spot, Fecker, and Unertl rifle telescope.

35-ETA **$2.50**

Specify for what make scope.

VAVER MULTI-APERTURE SIGHTING DISCS



This sighting disc assembly consists of eyecup, ½", ⅝", ¾", or ⅞", the adapter and 7 apertures in different sizes as shown.

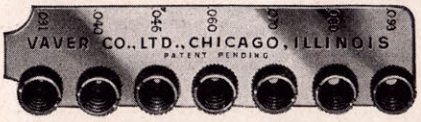
The adapter is coin-slotted and removable for the changing of apertures. These sighting discs fit all standard receiver sights. Vaver Multi-Aperture Sighting disc (eye-cup, one adapter and 7 apertures, 9 pieces) .. **$1.00**

(When ordering, specify size eye-cup wanted.)

1¼ Special **$1.50**

Vaver Multi-Aperture Sighting Discs in Kits

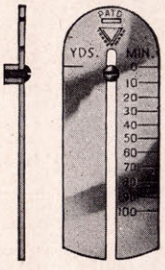
KIT 7A consists of one Vaver eye-cup and 7 adapters with different size aperture set in each adapter—mounted on a holder plate marked with size of apertures. One end of the holder plate is a screw driver for removing or inserting the adapters in the eye-cups. KIT 7A (1/2-5/8-3/4 or 7/8" eye-cup) **$2.50**



KIT 7B consists of 7 Vaver adapters with apertures set in —mounted on a holder plate. These adapters fit all Vaver eye-cups. Also eye-cup block. KIT 7B.. **$1.75**

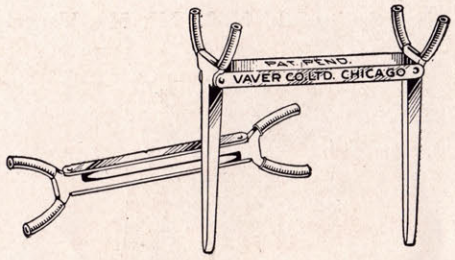
VAVER MICROMETER DIAL SIGHT

Interchangeable Elevation Scale Plates



Scale plates are furnished standard with minute of angle graduations on one side. The opposite side is left blank for graduations in yards or range. The plate locks into position on the stud and lifts off the elevation staff, maintaining its permanent zero. This makes possible the quick interchange of plates, graduated for each load or type of ammunition, so that the scale plate on the sight conforms to the ammunition being used. Each **$0.50**

Vaver Rifle Support

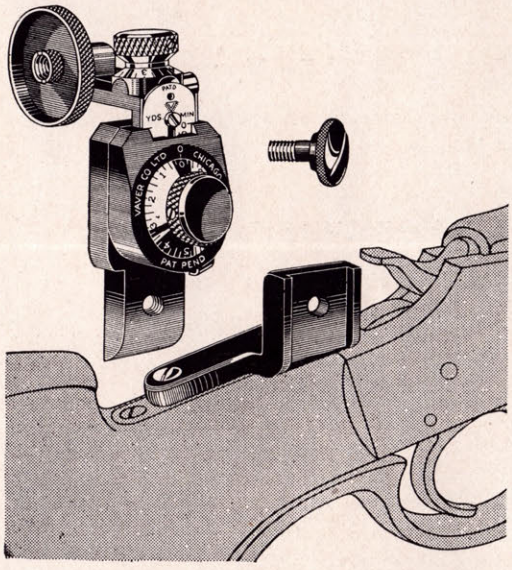


This is the support riflemen have been waiting for. Keeps the entire rifle off the ground and holds it from tipping. The forks are 10" long over all—the cross bar is 8". It folds up, takes practically no room in the kit. Weight 12 ozs.

35-RS **$2.00**

VAVER MICROMETER DIAL SIGHT

For Stevens Walnut Hill No. 417-417½-418 and 418½



Made for right or left side in standard or telescope height. Telescope height sights require the raising of the front sight, using Barrel Band 35 EBB.

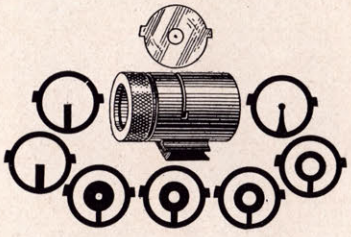
35 M5SR—Standard height, right..... **$15.00**
35 M5SL—Standard height, left..... **15.00**
35 M5RT—Telescope height, right..... **15.00**
35 M5LT—Telescope height, left..... **15.00**

PACIFIC, REDFIELD AND KING SIGHTS

We are prepared to furnish any of these makes of sights, and fit them to rifles that are suitable. We illustrate below a few of these sights which have particular and outstanding merit, and which are, therefore, in demand.

Redfield Globe Sight

With Interchangeable Inserts



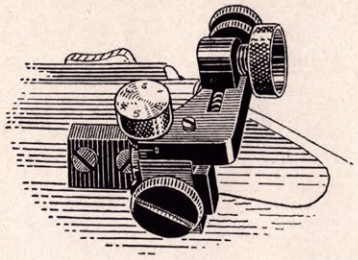
For bullseye target shooting only. Price **$2.50**

Redfield Protected Gold Face Patridge Sight

The sight has a well protected square gold bead, which for hunting is perhaps slightly better than a round bead, but it can also be smoked black for target shooting, thus forming a perfect flat top post sight of the Patridge type. This is decidedly the best front sight for both hunting and target shooting. Furnished for all rifles with 1/16″ blade or bead, and for revolvers with 1/10″ blade. Price ... **$1.50**

REDFIELD NO. 102 RECEIVER SIGHTS

With Screw Type Elevation



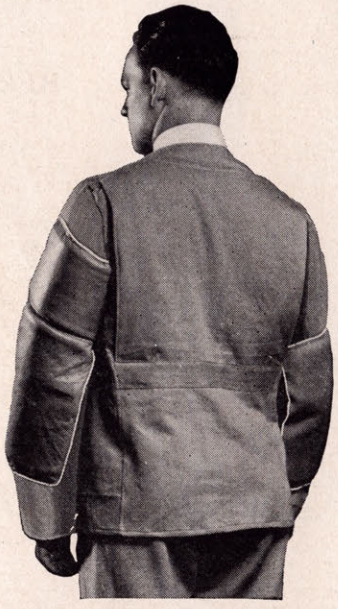
Quite generally these are the only rear sights made for the small .22 caliber bolt action rifles which have screw adjustments reading to minutes for both elevation and windage. That is, they are the only rear sights made for these small popular rifles which permit of accurate adjustment to keep the center of impact in the 10-ring in target shooting within the time limit of one second per shot. When it is desired to use this sight, these small rifles should always be ordered fitted with open rear sight. State make and model of rifle when ordering. Price **$3.75**

KING SQUARE BEAD FRONT SIGHTS

With Reflector Ramps

These front sights have square beads, either gold, ivory, or red. Those with gold bead can be smoked and then are identical with flat top target sights. With the bead rubbed bright, the mirror set into its top surface catches light from the sky and reflects it on the bead, making the bead easy to see on dark days or in poor lights of shadowed places. It is made for almost all standard rifles, revolvers, and pistols. Price ..... **$2.00 to $5.00**

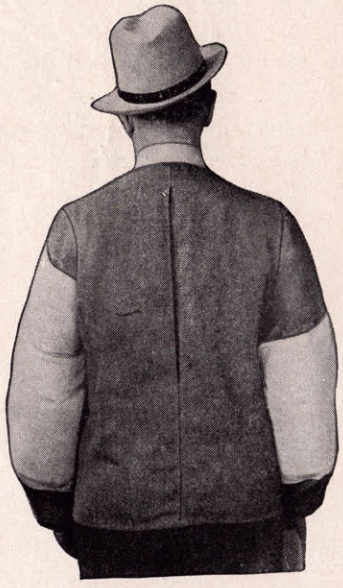
10-X RIFLE SHOOTING COATS



The Aristocrat

Truly the Aristocrat of all rifle shooting coats. Made of light, cool, durable, sanforized caribou shade khaki. Set in pockets, leather reinforced corners. Padded with half-inch wool felt. Covered by No. 1 selected horsehide leather. Individual gussets for each sleeve, assuring free movement. Fitted belted back. Genuine talon fastener optional at no extra cost. Left shoulder coats at no extra cost. State chest measure and whether talon fastener or buttons.
Price **$8.00**

10-X RIFLE SHOOTING COATS



The Super DeLuxe

Made of ten ounce tan whipcord, cool and wears like iron. Patch pockets, half inch wool felt padding with horsehide leather cover. Six inch pleat in back. State chest measure. Price **$5.25**

RED HEAD HUNTING COATS

No. G. Heavy waterproof forest-brown Army duck outside and lining including top sleeves which are swivel top ventilated. Wide collar and cuff lining of fine ribbed corduroy. Sleeves are adjustable, full in size even when pockets are filled. Two large double shell pockets and combination breast and whistle pocket on left. Three large game pockets, the rear one entered from the outside seams, the sides from just inside front edges. Convenient match scratcher.
State chest measurement when ordering. Price.... **$7.25**

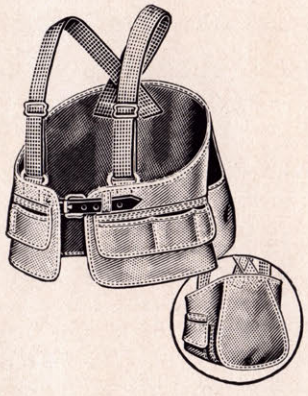
No. C. Same as above but of corduroy throughout, lined with forest-brown soft twill. Warm and splendid for duck shooting. State chest measure when ordering.
Price **$7.75**

RED HEAD

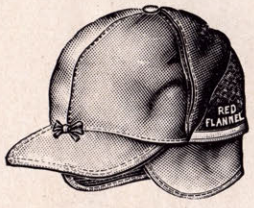
Corduroy Pants to match above coat. State waist and inseam measurements. Order as No. C. P. Price. **$4.75**

Corduroy Lace Bottom Breeches to match above coat. State waist measurements. Order as No. CPL.
Price **$5.25**

Corduroy Shell Vest to match above coat. State chest measurement and gauge of shells. Total capacity 38 shells; 12, 16, and 20 gauge. Order as No. CV.
Price **$4.00**



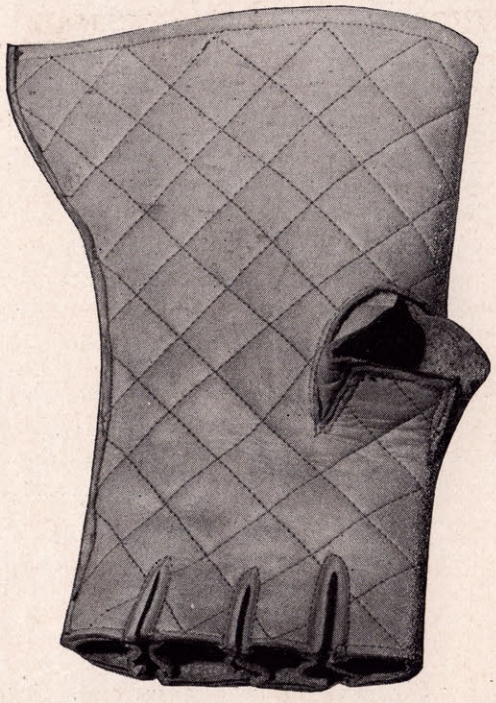
Game Bag with Blood-proof Pouch and Water-proof Shell Pockets. Made from heavy duck with rubber vulcanized to it for lining. Shells are always in dry condition. Ideal as fish bag too. Has three special tackle pockets. No. JB
State size desired—small, medium, or large.
Price **$2.60**



Red Head Deer Stalkers Cap. A sturdy hunting cap made of forest-brown waterproof Army duck, with unbreakable visor. Inside corduroy band for neck and ear protection. Round crown constructed so that one half will turn over from side to side exposing bright red flannel interlining. A double purpose cap for deer hunting or general use.
State size. Order as No. 42. Price..... **$1.25**

10-X SHOOTING GLOVE

For Riflemen



The first shooting glove designed by riflemen for riflemen with exactly the right amount of padding in the right place. The fingers extend to the first joint and the glove is so designed that the crotch of each finger carries an equal share of the weight, thus eliminating the excessive pressure that in other gloves comes between the thumb and index finger.

The glove is double leather with correct amount of felt padding quilted between so that the felt can not get away, wad up, or wear out. The glove leather is soft and pliable, and no matter how wet it gets, will not shrink or stiffen a bit.

Made in all sizes, and for left hand shooters..... **$2.50**

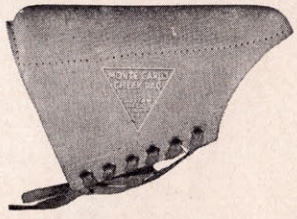
If made with only the index finger separated from the other fingers..... **$2.00**

RANDLE SHOOTING MITT

A gauntlet mitt of horsehide, reinforced at just the right spots for prone shooting. Designed by a celebrated rifle shot of many years experience. Either left or right hand.

Large, medium, or small size. Price..... **$1.50**

JOSTAM NEW MONTE CARLO CHEEK PAD



A high grade moulded rubber cheek pad enclosed in high quality fair leather. Laces on the stock. It makes shotgun stocks straighter, raising the comb and decreasing the drop. It is a necessity on almost all rifles when a telescope sight is used. The medium height is just right for most rifles, particularly for Winchester Model 52 and 54 rifles, Springfield sporting rifles with standard armory stocks, and most small .22 caliber rifles. For Krag rifles with armory stocks and Winchester single shot rifles the high size should be ordered. Not suitable for Remington Model 30-S rifles or for those remodelled rifles in which the cocking piece just clears the comb of the stock. Weight 2 to 3 ounces, 7″ long.

No. 2. Low, ⅛″ high.
No. 3. Medium, ¼″ high.
No. 4. High, ½″ high.
Price any height..... **$3.00**

NATIONAL GUNSLINGS

Whelen type gunslings, of best oiled russet leather, with two keepers, hook, and lacing thong. The best gunsling made, and not to be confused with the ordinary slings usually seen.

⅞″ wide for rifles fitted with quick release swivels **$2.50**

1″ wide for rifles fitted with swivels which are 1″ to 1⅛″ wide inside and for Winchester Model 54 rifles..... **$2.75**

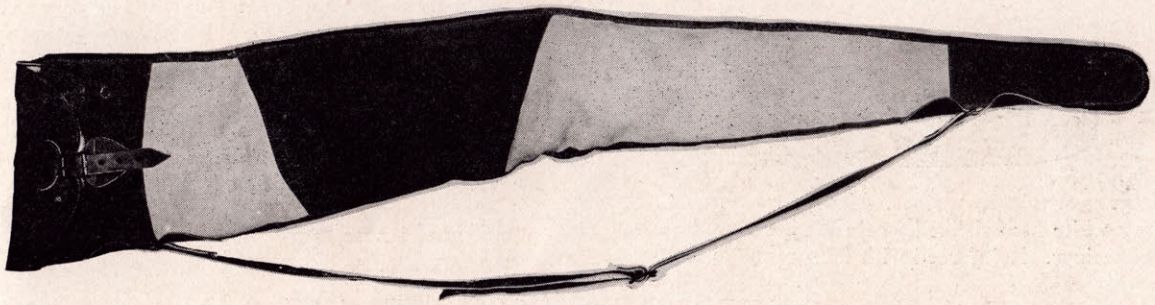
1¼″ wide for Winchester Model 52 rifles, and all Springfield, Enfield, and Krag rifles having the standard Government type sling swivels..... **$3.00**

Standard Government leather, Model 1907 used gunslings, in cleaned and thoroughly serviceable condition. Correct for Winchester Model 52, and all Springfield, Enfield, and Krag rifles having the standard Government type sling swivels. When these slings are treated with neatsfoot oil they become softer and more pliable even than new slings of the same type. Price, subject to prior sale..... **$1.00**

Winchester 1″ N.R.A. (Whelan) type gunslings of tan leather, actually ⅞″ wide. Price..... **$2.00**

Savage and Stevens light leather sling straps, ⅞″ wide, of Government Model 1907 type. No. 3. Price **$1.90**

NATIONAL SHEEPSKIN LINED RIFLE CASES



The "National" Sheepskin Lined Rifle Case. Our own exclusive product and the best made. A perfect protection for the fine rifle. Thick to protect the rifle from knocks. The fleece lining contains natural lanolin and thus prevents rust, and, moreover, collects a further oil film with use. Reinforced at muzzle, butt, and over both sides of action with thick, soft "elk" cowhide, dark brown color. Has convenient, strong shoulder strap. Made in two sizes, one for rifle with iron sights, and the other to contain rifle with telescope sight on it. Designed by Colonel Townsend Whelen. In ordering, state whether with or without scope, and overall length of rifle (or make and model).

National Case for rifles 40 to 43 inches long without scope **$6.00**

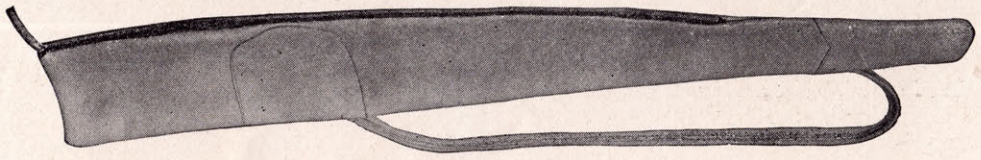
National Case for rifles 43½ to 46 inches long without scope **6.00**

National Case for rifles 46½ to 48 inches long without scope **6.25**

National Case for rifles 43½ to 46 inches long with scope **7.00**

National Case for rifles 46½ to 48 inches long with scope **7.25**

10-X GUN CASE—ALL LEATHER



Soft Chrome Tanned Horsehide Leather Case

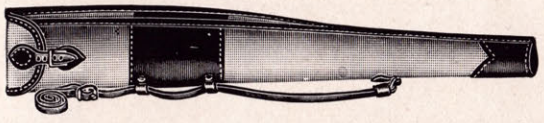
A 36 inch Talon fastener allows three fourths of the case to lie open. Place the gun on the case and zip the talon, and the gun is in the case, full length. Made of No. 1 selected chrome tanned horsehide leather. Talon is lapped and there are no rivets—no metal can touch your gun. Complete with carrying strap for any rifle or shotgun only **$5.25**

Also Made for Carrying Rifle With Scope Mounted, Complete **$6.00**

Leg-o-Mutton Red Head Gun Case

Medium weight cowhide, either russet or rich chocolate color. Lined with heavy green felt, rod pocket under partition, lock buckle with key, leather sling strap and handle, heavy brass trimmings, including name plate on side, sides flanged to meet with sides of cap when closed. For any shotgun. State make, model, and length of barrels of gun, and color of leather desired. Order as No. 75.
Price **$10.25**

Red Head Canvas Rifle Covers



Made of extra heavy No. 6 duck, O.D. color, with heavy chocolate leather action and muzzle protectors, combination sling strap and handle, bound with leather, lined with heavy buff colored suede cloth, brass trimmings. State make, model, and barrel length of rifle, also overall length.
Order as No. 066. Price **$5.25**

Same but canvas bound, lined with heavy white flannel. Order as No. 466 ..... **2.75**

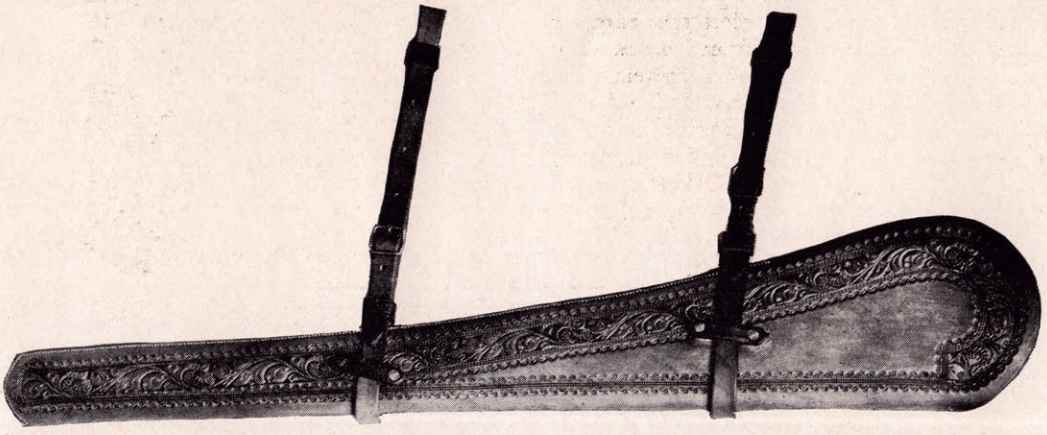
Red Head Canvas Takedown Gun Cover

For shotguns or takedown rifles. Heavy forest-brown Army duck, heavy white flannel lined, grain leather sewed on handle and trimmings. Reinforced with heavy orange leather at lock and muzzle, hand sewed end, full grain leather binding, brass hardware, outside rod pocket. For all double and single shotguns except Remington Models 31 and 17. Also for all takedown rifles except bolt actions. State make, model, caliber, and length of barrels. Order as No. 869D.
Price **$3.50**

Same as above for Remington Models 31 and 17, automatics, and .22 cal. takedown bolt action rifles. Order as No. 869R31 ..... **$3.75**

Extra for leather sling strap which permits slinging the case over the shoulder ..... **.25**

HEISER SADDLE SCABBARDS

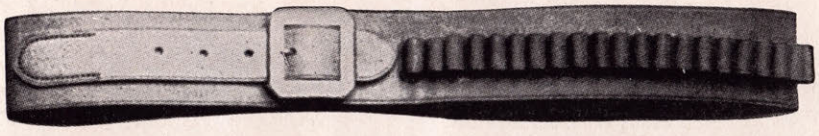


Made of heavy oak tanned California skirting leather, closed end, wax thread sewed, 7/8" carrying straps, retaining loops hand riveted to scabbard. Scabbard is unlined.

		Length 36"	about 38"
No. 337.	Plain, smooth finish	**$6.50**	**$7.00**
No. 338.	Machine flower wheel border finish, one side only	**7.00**	**7.50**
No. 339.	Full hand bullseye stamped, one side	**7.50**	**8.00**
No. 340.	Mexican raised hand carved finish, one side only	**9.00**	**9.50**

Winchester M54, Remington M30-S, and Springfield bolt action rifles usually take a scabbard 38" long. Lever action arms with 24" barrels usually take a 36" scabbard.

CARTRIDGE BELTS



Heiser belts of heavy California skirting leather, 2¼" wide nicely edged and creased, with 30, ¾" hand sewed cartridge loops, 1¼" x 10" billet and nickel California belt buckle, sewed with heavy waxed thread, unlined. State waist measure and exact cartridge.

No. 38 Plain, smooth finish **$4.25**
No. 738 Mexican hand carved **5.75**
No. 34 Plain, for rimless rifle cartridges **6.00**

We will be glad to quote prices on fancy and special Heiser cartridge belts and other leather goods.

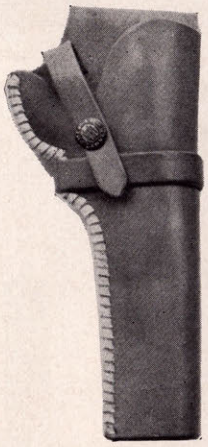
TELESCOPE SIGHT CASES

Fecker leather carrying case for Fecker scopes.
(Specify type and length) **$5.00**

Holsters for telescope sights, similar to revolver holsters with flap, can be made to order from best leather, and to customer's own ideas, at about $5 and up.

REVOLVER AND PISTOL HOLSTERS

The Heiser revolver and pistol holsters are the best made and most widely known of all holsters. Many different types, styles, and sizes are made. We have space here to show only a few, but will be glad to quote prices if we be sent a sketch showing about what is desired. Always state make, model, caliber, and length of barrel of the hand gun that the holster is to be made for.



RELOADING TOOLS

The empty cartridge cases remaining when one fires center fire cartridges in a bolt action rifle or a revolver, and lightly charged cartridges in a lever or pump action rifles, can be reloaded many times. As the cartridge case is the most expensive portion of the cartridge, reloading of these is a considerable saving. Also, as a rule, factory cartridges are furnished only for one purpose. Usually these are loaded as heavily as possible to give increased killing power on big game, and, as a consequence, they are entirely unsuited on small game. It is possible, however, to reload the fired cases with excellent loads for small game, thus making one's rifle a truly all-around arm.

For reloading, two things are necessary: first, a knowledge of the process, and, second, proper tools. Tools cannot be ordered intelligently until one has a knowledge of the process. We give here a brief outline of the tools required, together with the approximate prices. We refer our customers to the *Ideal Handbook* published by the Lyman Gun Sight Corporation, Middlefield, Conn., price 50¢, and to the *B. & M. Handbook*, published by Belding & Mull, Philipsburgh, Pa., price 25¢. These two sources give complete information on reloading. Any careful person studying these handbooks can make a complete success of reloading his cartridges, and also can order the necessary tools with a certainty that he is getting the ones which will suit his purpose. But, until these handbooks are studied, no one can reload either safely or satisfactorily, or understand the language of reloading.

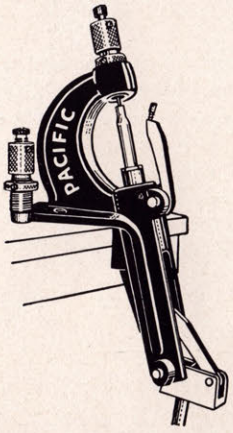
Those who confine their reloading to factory made bullets require a complete reloading tool which includes decapper, neck resizing die, neck expander for factory bullets, recapper, and bullet seater, also a powder measure, and a powder scale. This is the minimum outfit with which success is assured. Such an outfit for one cartridge only costs from $25 to $40.

Those who also desire to cast their own bullets will require, in addition to the above tools, a neck expander for lead alloy bullets, bullet mold, lubricator and sizer, melting pot, and dipper. These will cost about $18 for one bullet only, and an additional $5 for each extra bullet mold. It is also necessary to have a stove for casting the bullets.

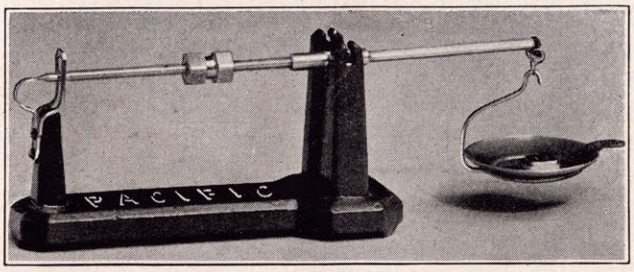
The components for reloading are reasonable in price. Primers cost about 38¢ a hundred, powder costs about $2 a pound of 7,000 grains, and bullets cost from 90¢ to $2.70 a hundred, or much less if you cast your own bullets. Thus, reloading costs about $1.50 a hundred rounds in the case of the smaller cartridges like the .22 Hornet and .25-20, which, factory loaded, sell for about $2.50 a hundred rounds. In the larger sizes like .30-06, which in factory loads cost about $8.50 a hundred rounds, reloading costs from $3 to $4.50 a hundred rounds, depending upon the kind of bullet one uses. Thus, there is a decided economy in reloading, particularly when one has reloaded enough to save the initial cost of the tools.

We handle Lyman (Ideal), Pacific, and Belding & Mull reloading tools, and will be glad to quote prices of outfits on request and advise you as to reloading. But we wish to state that there is a certain little intricate technique as to reloading which can be understood only by reading the two handbooks above. Until the customer has read those handbooks he is really not in a position to either order tools or to correspond on the subject. We therefore, strongly recommend that the handbooks be obtained first and studied. We can supply them on receipt of their small cost.

In ordering tools we must know the make, model, and exact caliber of the rifle or revolver, the precise bullet (make, weight, number, and diameter) one desires to reload, and whether the cartridge is to be crimped or not. Usually a number of other details are required, which will be understood only by those who have studied the handbooks.

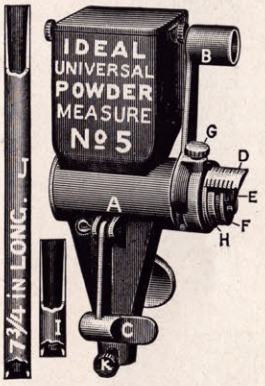


Pacific Reloading Tool
$22.50

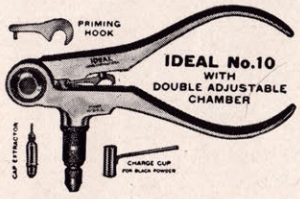


Pacific Powder Scales $7.00

The above three tools are a popular combination for loading factory bullets.



Ideal Power Measure
$7.50

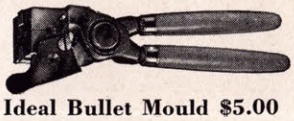


Ideal No. 10 Tool $6.50

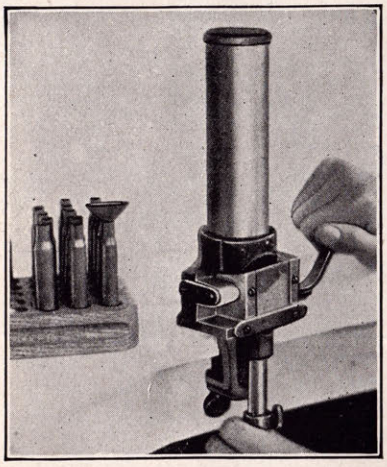
Ideal Dipper 50 cents

Ideal Lubricator
and Sizer
$10.00

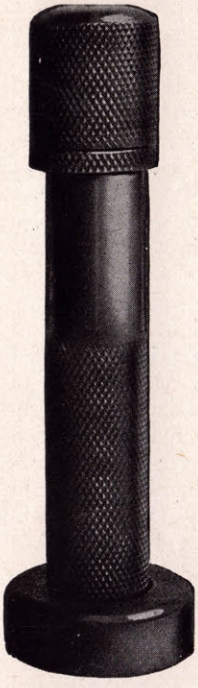
Ideal Melting
Pot $1.00



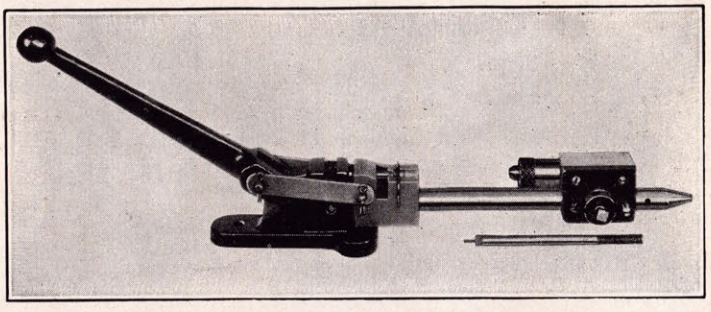
Ideal Bullet Mould $5.00



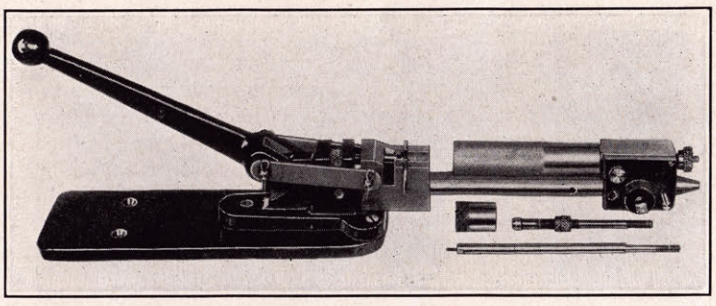
B & M Powder Measure $8.00



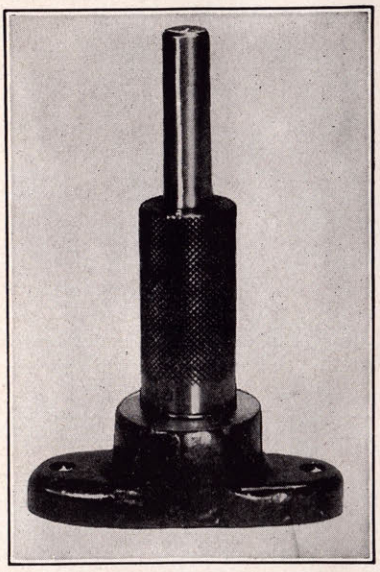
B & M
Bullet Seater



B & M No. 26 Tool

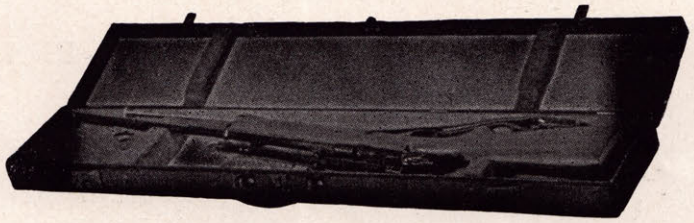


B & M No. 28 Tool



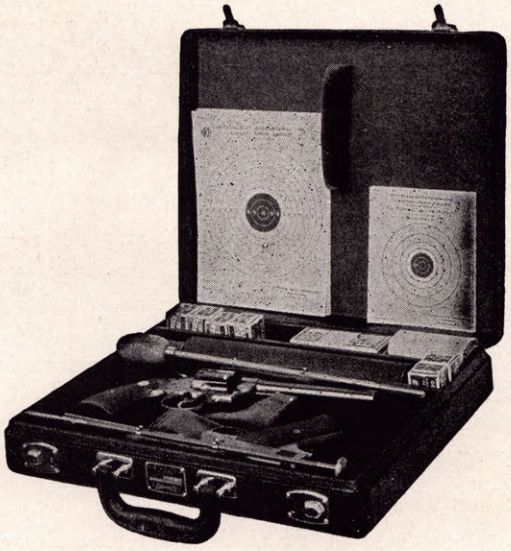
B & M Bullet Sizer $3.00

N. R. A. GUN CASES



This new N. R. A. combination gun case is the ideal carrying case for the rifleman. It combines all the conveniences of a made-to-order carrying case plus the beauty and roominess of distinctive luggage. The only carrying case on the market that will accommodate a rifle with telescope sights attached. Plenty of room for shooting glove, cleaning rod, targets, etc., too. (See cut.) Designed especially for the popular Model 52 Winchester rifle, but retaining blocks can easily be arranged so as to accommodate any other rifle. Length 48 inches; width, 8 inches; depth, 4 inches; jet-black covering, brass hardware. Materials and construction unconditionally guaranteed. Standard blocks fit Model 52 target rifle only. A handy man can easily convert this case to fit any other rifle. We do not convert it ourselves. Price, $12, f.o.b. Washington.

N. R. A. 2-GUN PISTOL CASE



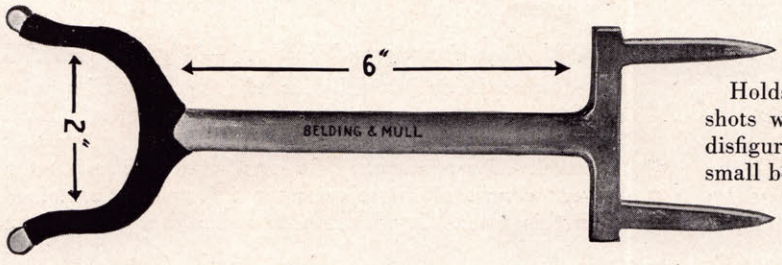
A N. R. A. case for your two favorite handguns. Keeps them safe, intact, and free from dirt. Made-to-order retaining blocks, hold guns snugly in place.

Outside measurements are 13″ x 15″ x 3″ (inside dimensions, ⅛ inch less). The case will accommodate any two standard handguns of American manufacture. Its roomy compartments contain plenty of space for ammunition, cleaning materials, and shooting gadgets too. In addition, there is a separate compartment large enough to take a B. & L. draw-tube spotting scope.

Inside of case is lined with a soft, maroon-colored felt, to match the rich maroon velour covering used on the retaining blocks. Cover is a tough-grained imitation leather, jet black, that blends beautifully with the nickel-plated hardware and two-color name plate. Price, f.o.b. factory.. **$8.00**

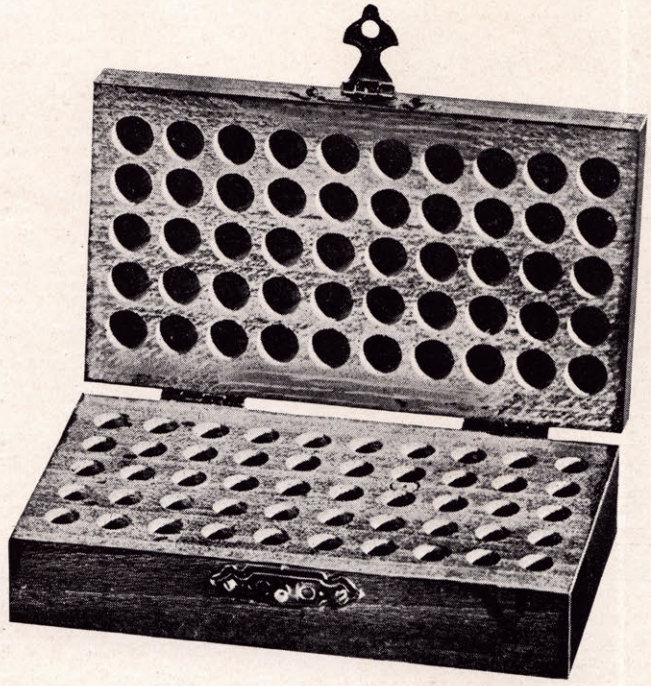
Be sure to specify the make, model and caliber of your two handguns.

B & M ALUMINUM FORKED RIFLE REST



Holds the barrel of the rifle free of the ground between shots when firing prone. Has padded crotch so it will not disfigure the stock. An absolute necessity for the small bore or military target shooter. Price..... **$ .75**

.22 CAL. CARTRIDGE BLOCKS



To hold cartridges at the firing point, providing a check on the number of rounds fired. The use of such a block is compulsory on most small bore matches. Price.. **$ .50**

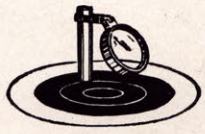
Official N. R. A. Trigger Weights

Every club should have an official weight for testing the trigger pull of rifles and pistols during club matches. Shooters training for the big regional and state matches likewise need an official trigger test weight to keep their trigger pulls up to par.

Official three-pound rifle test weight, postpaid, price **$1.25**

Official weight for all guns, including pistols and revolvers (will test from two to four pounds), postpaid, price..... **$1.75**

Official N. R. A. Scoring Gauge



Made by Mirakel Optical Company. Equipped with 5-X magnifying glass. Rustless steel flange of guaranteed accuracy. Genuine leather case. Price, postpaid **$1.00**

BOOKS ON ARMS, AMMUNITION AND SHOOTING

The following are the standard, authoritative, and best books on arms, ammunition, and shooting. No one can be said to be well informed on these subjects until he has read these books. We cannot afford to disregard the accumulated knowledge on any subject as laid down in good books. No one's life is long enough to gain any really extended experience which will compare with that of all our experts and given in these works.

The Book of the Springfield—Crossman..... **$4.00**

Military and Sporting Rifle Shooting—Crossman **4.50**

These are the standard works on high power rifles, and are companion books. The first deals with all high power rifles, not merely the Springfield, and the second covers marksmanship with them, and is the standard book on the fine points of rifle shooting.

Modern Gunsmithing—Baker..... **$4.50**

The Modern Gunsmith—Howe (Two Deluxe Volumes) **15.00**

The Baker book is the one for the beginner. The Howe work is an advanced work for those having some knowledge of machine tools. Amateur gunsmithing is a fascinating, useful, and profitable hobby.

Textbook of Pistols and Revolvers—Hatcher.... **$4.25**
Textbook of Forearms Identification—Hatcher. **7.50**

The standard and authoritative works on the hand gun. The second book comprises also the first. No lover of revolvers and pistols should be without at least the first of these books.

.22 Caliber Rifle Shooting—Landis..... **$3.75**

Small Bore Rifle Handbook—Whelen..... **.15**

The standard books on these subjects. Every user of .22 caliber rifles, and every small bore shooter should have these.

Modern Shotguns and Loads—Askins..... **$4.00**

The standard work on the shotgun and its use. A very useful work.

Wilderness Hunting and Wildcraft—Whelen... **$3.75**

Covers the subject fully including hunting all species of American big game (how to hunt, not merely hunting stories) equipment, outfits, camping, and wilderness travel. The sportsman who gets but one short hunt a year cannot afford to miss the information contained in this book. It will help to make your next trip a success.

Telescopic Rifle Sights—Whelen..... **$1.50**

Contains full information on the selection, mounting, use and care of telescope sights for target and sporting rifles. For the first time all this necessary data will be found in one book. Very valuable and a necessity to any scope shooter. Ready Sept. 1, 1936.

The Woodchuck Hunter—Paul C. Estey..... **$1.50**

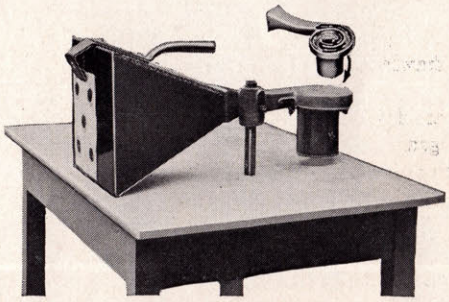
A most entertainingly written book on the subject of woodchucks—their habits, natural history, and shooting. Contains elaborate chapters on the best modern rifles and ammunition for their successful hunting. Also best scopes and metallic sights. Well illustrated with photographs and a splendid series of sketches made specially for this volume.

Big Game Rifles and Cartridges—Elmer Keith.. **$1.50**

The most complete and practical treatment of this subject which has yet been published. A most thorough and accurate work, done by a rifleman who has spent his entire life in the wilderness of the Rocky Mountains, living daily among the big game. Entirely different from anything you have ever read and the special illustrations of this work are as original as its text.

X-RING CENTRIFUGAL BULLET TRAP

Provides a perfect back stop, bullet catcher, target holder, and lighting system, thus converting any room, basement, gymnasium, etc., into a shooting gallery in a few minutes. Ideal for the home. Safe and durable for any .22 cal. cartridge up to .22 Hornet, and for any revolver and pistol cartridge. Made in several sizes and types.



The 12″ Table Model is the same in every respect as the 12″ pedestal type with the exception it is designed for setting on a table or box and being equipped with a handle making it as easy to carry as a suitcase. The ultimate in a portable backstop, this feature together with the low price it is offered at, makes it a very popular model for the individual as he can easily transport it in a car to the camp, country or elsewhere and still use it in the basement or attic. It is also desirable for the small club or group where economy is essential. 48″ pedestals are available and can be purchased separately at any time for converting it into a pedestal model.

18″ Pedestal Model

This model is suggested for those who want the very best in protection and target illumination. It is particularly adapted for pistol shooting and is highly recommended to the Individual—Club or other organizations for pistol shooting up to 60 ft. and rifle shooting at considerably greater distances.

12″ Pedestal Model

This little model is economical, light and easy to handle, yet will withstand the same cartridges as the larger 18″ size. It is suitable for the home or individual range for rifle and short distances for pistol shooting and works out very satisfactorily for Clubs and other organizations for use with rifle shooting but is rather small for group pistol shooting unless at close ranges. Handles and support pipes are available and can be bought separately for converting into the table model described above.

18″ Pedestal Model, complete with 48″ Pedestal, Bullet Receiver, Target Clip, etc., weight 82 lbs.. **$28.00**

12″ Pedestal Model, complete with 48″ Pedestal, Bullet Receiver, Target Clip, etc., weight, 44 lbs.. **15.00**

12″ Table Model, complete with Handles, Support Pipe, Bullet Receiver, Target Clip, etc., weight, 35 lbs. **13.00**

Shock Absorbing Lamb Bracket, which fits all traps, complete with spring mounted socket, 36″ cord and connector, weight, 4 lbs..... **2.75**

Handle and Support Pipe for converting Pedestal Model into Table Model, weight, 2 lbs..... **1.00**

48″ Pedestal for converting 12″ Table Model into Pedestal Model, weight, 10 lbs..... **3.50**

All Prices F.O.B., Peoria, Ill.

Section X

Gunsmithing Services and Supplies

The National Gun Shop is prepared to cater to the needs and desires of those discriminating shooters who wish custom built or altered arms to meet their exacting requirements. With its corps of highly skilled and competent workmen, this shop is prepared to undertake such work as:

Remodeling and restocking high grade rifles, such as Springfield, Enfield, Krag, Winchester, Remington, and Savage;

Restocking of foreign and domestic shotguns, including fitting butt-plates and altering drop and cast-off;

Fitting of telescope and other sights;

Assuring correct relationship and fit of rifle, stock, scope, and sling.

The National Gun Shop is not prepared to undertake such minor repairs as adjusting trigger pulls, polishing shotgun barrels, altering choke, removing dents, etc. For such repairs we suggest your local gunsmith.

Particular attention is called to the fact that we thoroughly understand the importance of proper location of tubes, eye-pieces, and mountings on telescope sights, and their correct relationship to the comb of the stock.

An estimate on any of the work described above will be gladly given. Please be explicit as to details.

CUSTOM BUILT STOCKS

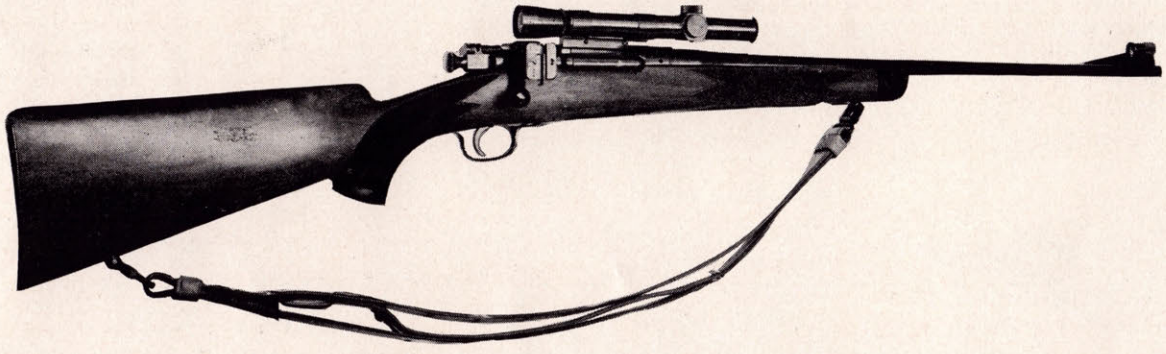
We wish to announce that we are prepared to build custom made stocks and fore-ends for all types and models of rifles and shotguns. These stocks are built from the very finest, thoroughly seasoned American, French, and Circassian walnut, and are completely constructed to the individual weapon in our own gunshop by some of the best stockers in this country under the personal supervision of Colonel Townsend Whelen. These stocks are built strictly by hand and to special order, and to the customer's own specifications and measurements.

The workmanship on these stocks, whether applied to one of the extremely expensive British shotguns costing upwards of a thousand dollars, or to one of our own excellent bolt action rifles, is first class in every particular. The wood and workmanship are superb. The fitting to the metal parts is such that, except for color, no joint can be seen, the joint being both dust and waterproof. With stocks for bolt action rifles the bedding on which accuracy always depends is perfect, and the rifle will shoot with all the accuracy its barrel, action, sights, and ammunition will permit.

The exterior shaping of the stock is done by an artist in his line—the curves, the proportion, and the whole appearance being artistic and in keeping with the best traditions of the world's finest gunmakers. The checkering also is perfectly executed, flawless, and of the size and type which the customer desires.

Stocks are fitted with such details and accessories as name and monogram plates in silver or gold; Asiatic buffalo horn forearm tips; the finest butt-plates and pistol grip caps, with or without traps, and of the type desired; and sling swivels of any type. Stocks may have cheek-pieces of any design, Monte Carlo combs, and fore-ends of any type including beavertail. Rifle stocks can be built with special reference to the utmost efficiency when using telescope sights, and as such sights themselves can be mounted in our shop, an exact relationship between rifle, scope, and stock is assured.

Our stockers take such intimate pride in each piece of their workmanship that they even engrave their own names in the interior of their stock, thus adding their guarantee to our complete guarantee of the finest workmanship obtainable.



Springfield Sporting Rifle remodeled and restocked by our gun shop.

We particularly desire to call attention to the fact that the sportsman or target shooter usually selects a bolt action rifle because he has heard that rifles with this type of action are the last word in accuracy. This is true when all details are properly taken care of, including the stocking. But a bolt action rifle will not shoot accurately in a poorly bedded

stock, and it will not continue to shoot accurately in a well bedded stock that warps. It takes a great deal of skill and many hours of work to bed a barrel and action properly in a stock in such a manner as to insure fine accuracy. Our workmen are skilled in this work, and do it conscientiously and honestly. The walnut which we give them to work with is specially imported by us and comes from firms abroad who for generations have been supplying such wood to the finest custom gun and rifle makers of England and Germany.

When a customer orders one of our stocks, we determine, by personal contact or by correspondence, the precise details he desires incorporated in the stock and the exact measurements which will best fit him. Our stocks fit the shooter like a well fitting glove. In workmanship, durability, finish, and beauty, they leave nothing to be desired.

The prices following will give the customer an idea of our charges for this work. The cost of special features will be given gladly on application.

CUSTOM STOCKS AND ALTERATIONS AND REPAIRS—WOOD

One piece (bolt action rifle) pistol grip stock, custom built to measure, selected imported walnut, oil finish, with checked Winchester butt-plate, horn or steel pistol grip cap, with or without cheek piece, plain sling swivels, no checkering, for Springfield M 1903, U. S. M 1917, Winchester M 54, Remington Model 30-S, and Krag rifles **$50.00**

Same for other rifles **60.00**

Extras on above stocks:

Plain checkering	**10.00**
Fancy checkering, up to	**25.00**
Buffalo horn forearm tip and silver name plate	**7.50**
Detachable sling swivels	**2.50**
Trap butt-plate	**7.50**
Selected European walnut of finer figure and character	**5.00** to **20.00**

Butt-stocks for single shot and repeating rifles, selected imported walnut, with or without pistol grip, and with checkered steel Winchester butt-plate **$35.00**

Rifle forearms to match above stocks, without checkering ..... **10.00** up

Beavertail forearms to match above stocks, without checkering ..... **12.50** up

Extras on above:

Checkering butt-stocks	**5.00**
Checkering plain forearms	**5.00**
Checkering beavertail forearms, from	**10.00**

Shotgun butt-stocks for side lock guns such as Purdy, Powell, Rigby, Woodward, Holland & Holland, and Boss, of best European walnut, including checkering, butt-plate, and silver name plate **100.00**

Same for box lock guns such as Westley Richards, Greener, Francotte, and Parker **75.00**

Shotgun fore-ends to match above stocks, regular style, best European walnut, checkered ..... **25.00** to **50.00**

Same, beavertail ..... **35.00** to **60.00**

Soft Rubber Recoil Pads:

Jostam one ply black and red sponge pads, black center, red outside, small 4 oz. 5¼" x 1¾" x ⅞", medium 5 oz. 5½" x 1¾" x ⅞". State size desired **2.00**

Attaching to stock, including matching for color on portion of stock which has to be sanded, and attaching soft leather cover on rear surface, extra **5.00**

Jostam-Goodrich hard rubber back recoil pads, Small, 3 oz., 4⅞" x 1½" x ⅞"; Medium, 4 oz., 5¾" x 1-11/16" x ⅞"; Large, 5 oz., 5½" x 1-13/16" x ⅞". State size desired **3.25**

Attaching to stock as above, extra **4.00**

U. S. MODEL 1917 (ENFIELD) RIFLES

This is a crude military rifle, of excellent workmanship, durability, strength, and very fair accuracy. It is sold to members of the National Rifle Association only at $7.50 plus $1.35 packing charge, in cleaned and first class condition, barrel practically new. In its original condition, it is not a desirable arm, but it can be remodeled into a very fair sporting rifle for the .30-06 cartridge.

We are seldom called upon to completely remodel these rifles, because, since there is much more work on the metal parts than on the Springfield rifle, remodeling in an efficient manner costs about $15 more than in the case of the Springfield. Besides, when it is done, one does not have as good a rifle as the Winchester Model 54 or the Remington Model 30-S, because the bore of the Enfield is just a trifle larger than it should be for the finest accuracy.

However, these rifles make splendid subjects for the amateur gunsmith, who can remodel them into most excellent arms because his labor on them is recreation instead of an expense. Therefore, we can furnish inletted stocks, sights, sling swivels, butt-plates, and pistol grip caps for remodeling them, as well as the necessary stock making tools and the necessary materials for polishing the stock.

Winchester Model 52 Rifle with high comb and cheek piece added, and iron sights of scope height.

The above cut illustrates an important alteration we are prepared to make in the stock of the Winchester Model 52. In this case, a high comb and cheek piece have been added to the standard stock of the Winchester Model 52 heavy barrel rifle by dovetailing and cementing an inlay of matched walnut so cleverly that the addition appears to be a part of the original stock, and is just as strong and durable as though it were carved from the original blank. The cheek piece fits the owner's cheek perfectly, and the comb is as high as the withdrawal of the bolt will permit. This rifle has been fitted with a Lyman Targetspot scope, as well as a Vaver Extension Dial rear sight of scope height, a Vaver front sight detachable barrel band, and a Redfield globe front sight with inserts. In a minute or so the scope and iron sights can be interchanged and are of the same height.

The above alteration to standard stock, high scope comb, and cheek piece can be done on any stock which has a plain oil finish similar to that on the Winchester Model 52 rifle for $17.50; or a plain Monte Carlo comb of scope height without cheek piece can be added for $10.00. On rifles with fancy polished stocks the price is $2.50 additional, since the entire stock has to be repolished. On bolt action rifles the height of this comb is limited by the necessity for operating and withdrawing the bolt over it.

METAL ALTERATIONS AND REPAIRS ON SPRINGFIELD, ENFIELD, KRAG, WINCHESTER, REMINGTON, AND SAVAGE RIFLES

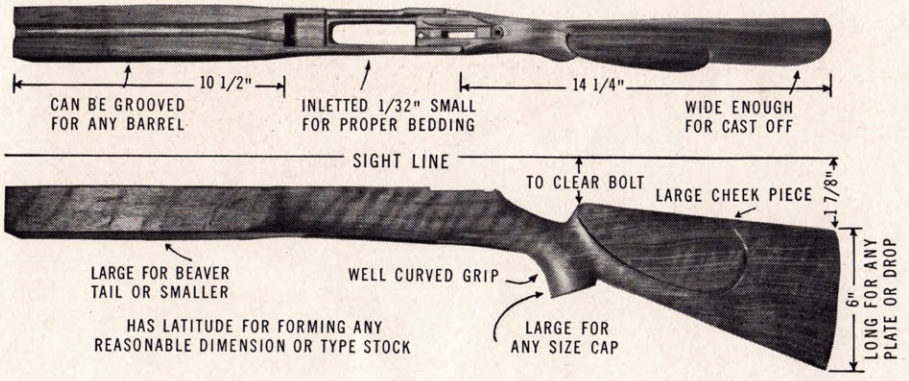
Prices vary as follows according to the style and labor required.

Fitting plain front sight stud	$2.00 to $	5.00
Fitting matted ramp front sight base*	5.00	12.50
Polishing and blueing rough military barrels*	2.50	6.50
Blueing receiver and guard*	2.50	5.00
Polishing bolt*	1.50	2.50
Polishing and engine turning bolt*	3.00	5.00
Smoothing action for easy bolt operation*	2.50	
Checking bolt handle*	1.50	3.75
Checking trigger	1.50	
Checking safety	1.25	
Adjusting trigger pull	1.50	2.50
Removing guards and forming bridge—Enfield	3.00	5.00
Altering Krag to flush magazine	15.00	
Fitting receiver sight to undrilled receivers*	1.00	2.50
Straightening guard on Enfield	3.50	5.00
Matting top surface of receiver	1.50	2.50
Removing numbers on receiver	2.50	
Bending bolt handles to special shapes and heights	5.00	10.00
Fitting trigger guard safety	5.00	7.50
Removing open sight base on M 54 barrel and blueing	3.50	5.00
Fitting barrel band with two detachable swivels*	3.00	4.25
Fitting Lyman or Fecker scope blocks	2.50	3.75
Fitting special receiver sights	1.25	2.50
Blueing entire bolt action rifle	6.50	10.00

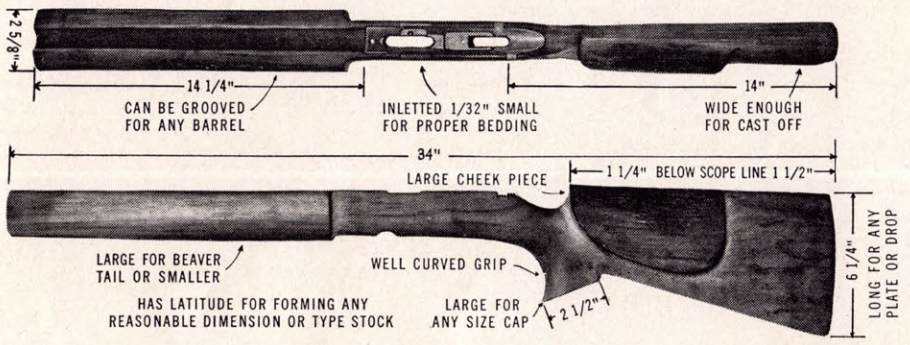
* These jobs are the ones usually required in remodeling a Springfield military rifle into the best sporting rifle, and total from $22.50 to $43.50, depending on style and labor. This is in addition to the cost of the stock.

NATIONAL INLETTED RIFLE STOCKS

For the Professional and Amateur Gunsmith


10 1/2"
14 1/4"
CAN BE GROOVED FOR ANY BARREL
INLETTED 1/32" SMALL FOR PROPER BEDDING
WIDE ENOUGH FOR CAST OFF
SIGHT LINE
TO CLEAR BOLT
LARGE CHEEK PIECE
1 7/8"
LARGE FOR BEAVER TAIL OR SMALLER
WELL CURVED GRIP
HAS LATITUDE FOR FORMING ANY REASONABLE DIMENSION OR TYPE STOCK
LARGE FOR ANY SIZE CAP
6" LONG FOR ANY PLATE OR DROP

American, French and Circassian Walnut Sporting Stock Blanks for Springfield M-1903, Enfield M-1917 (two styles), Remington M-30-S, Winchester M-54 and Krag Rifles.


2 5/8"
14 1/4"
14"
CAN BE GROOVED FOR ANY BARREL
INLETTED 1/32" SMALL FOR PROPER BEDDING
WIDE ENOUGH FOR CAST OFF
34"
1 1/4" BELOW SCOPE LINE 1 1/2"
LARGE CHEEK PIECE
LARGE FOR BEAVER TAIL OR SMALLER
WELL CURVED GRIP
HAS LATITUDE FOR FORMING ANY REASONABLE DIMENSION OR TYPE STOCK
LARGE FOR ANY SIZE CAP
2 1/2"
6 1/4" LONG FOR ANY PLATE OR DROP

American Walnut Target Stock Blanks for Winchester Model 52 Target Rifles.

Stocks for Springfield, Enfield, Remington, Winchester and Krag rifles, with Monte Carlo comb.

After much thought and experimental work we have designed new types of inletted stock rifle blanks which differ radically from any heretofore offered by any other manufacturer. These blanks of excellent walnut and of our own original design will save you many hours of time and labor whether you are a professional or amateur stocker.

These inletted blanks were designed with the assistance of Colonel Townsend Whelen. He has given you the benefit of his knowledge and experience and we unhesitatingly say that the "National" inletted stock is the complete and final answer to the inletted stock problem.

In the past if you wanted to build a fine, hand-fitted walnut stock for your gun you had to buy a roughly sawn stock blank. In many cases, the difficult task of proper lay out

often resulted in mistakes which ruined your blank. Or you could secure a crudely inletted stock which seldom if ever afforded you an opportunity for perfect bedding and fit, on which fine accuracy in shooting depends.

"National" stocks are delivered to you with all the difficult and time killing cuts for inletting barrel and action completed for you . . . precisely, expertly. Instead of an unwieldy, square-cut stock blank or a crudely, improperly inletted stock, your "National" Stock comes to you with the slow, hard work already done by a master craftsman.

For instance, the stock is inletted to fit the barrel and receiver, magazine and trigger guard, but 1/32" of walnut is left for you to remove. This 1/32" is extremely important. Proper bedding cannot be done in any stock so fully machine inletted that any barrel and action can be dropped into the stock and the two screwed together with no further work. Furthermore rifles of the same type vary in the measurements of their metal parts to some slight degree. This thin film of wood is therefore left for you to shave off so a perfect level and correctly proportioned bed can be obtained. Unless the barrel and action are properly bedded in the stock the accuracy of the completed rifle will be extremely poor.

The exterior dimensions of "National" rough-turned stocks give you plenty of leeway to fit the stock to your own dimensions. The drop at the heel can be altered from 2 to 3 inches . . . the length from 13 to 14¼ inches. The butt has been designed so that any length butt-plate can be used . . . allowing ¼ inch for cast-off or cast-on. The pistol grip can be altered to fit any size hand. Even in the rough, as it comes to you, it is nearly right for the natural position of the hand from the trigger. Only the circumference needs reducing. The forearm has been left square to allow for your individual design . . . whether you prefer the beaver-tail or the slim, graceful lines that identify the custom-made rifle.

Preferred Walnuts from World Markets

As you know, world-famous sportsmen have always preferred walnut for beautiful, durable stocks. To bring you the finest walnuts obtainable, the markets of Europe as well as America have been tapped for "National" stock blanks, Imported Circassian and French walnut, as well as American black walnut are offered you in "National" rough-turned stocks.

A Time-Saver for the Professional

When the professional gunsmith uses the new "National" rough-turned stock for his local trade, he will save between 10 and 15 hours labor on each stock and the amateur will save from 20 to 30 hours labor . . . for the interiors are so closely turned to form that they not only permit but act as a guide to perfect bedding with a minimum of labor.

Custom Gun Stock Completely Fitted

In our Gun Shop we have highly skilled stockers with years of practical experience. We are prepared to build custom stocks for any rifle or shotgun, using the very best American, French or Circassian walnut, and with any details or shapes desired. Precise checking, perfect inletting and bedding guaranteed. Stocks for rifles with telescope sights our specialty. Prices on request.

Prompt and Friendly Service

All "National" stock blanks carry "National" service . . . which means the long experience of Colonel Townsend Whelen are available to you at all times in helping you to select the best equipment for any particular purpose . . . at low prices you will be happy to pay.

Alterations from Standard Blanks

In order for us to fabricate these inletted and formed stock blanks a "pilot" stock, precisely like the completed stock, must first be made by hand by a skilled stocker, this work requiring several days. Then this pilot stock is placed in the wood carving machine and any number of identical stocks can be turned out at a cost that permits us to furnish them at low price to our customers. Any variation whatever would necessitate a new pilot stock and such alteration would thus be very costly.

We are prepared to furnish our inletted sporting stock blanks for the following models and types of rifles, at prices quoted below. Each of these blanks differs slightly from the other according to the model of arm for which it is intended. State the rifle for which the blank is intended when ordering.

Springfield Models 1903, and 1922 M-1 or M-2.
Winchester Model 54.
Remington Model 30-S Rifle.
U. S. Enfield Model 1917 with straightened guard.
U. S. Enfield Model 1917 with original curved guard and magazine.
Krag Models 1894, 1896, 1898.

American Walnut
One Grade (Select) ..... **$ 6.00**

French Walnut
Grade A **9.00**
Grade B **12.00**
Grade C ..... **$15.00** and up

Circassian Walnut
Grade A **10.00**
Grade B **15.00**
Grade C ..... **$20.00** and up

Monte Carlo Combs
Any of the above stock blanks can be had with high Monte Carlo comb with cheek piece for **$1.00 extra.**

Our inletted and formed target stock blanks of American Walnut for the Winchester Model 52 Target Rifle, in addition to being inletted small inside for perfect bedding, are formed outside so that they can be finished into any type desired, including the heavy target type with high comb for scope sight, heavy cheek piece and beavertail forearm as wide as 2⅝ inches. They have very large butt for extra large butt-plate and any reasonable drop. They can be worked down into a light sporting stock if desired.
Price, American Walnut only **$8.00**

We carry a large supply of selected French and Circassian Walnut stock blanks, not inletted or formed.
Prices **$7.50** to **$30.00** each.

Sling Swivels

1. Stock swivel screw eye bow; 1″ or 1¼″ wide, each ..... **$ .20**

2. Forearm screw eye swivel, complete with escutcheon. 1″ or 1¼″ wide, each ..... **$ .50**

3. Sling strap snap swivel (quick detachable) complete for stock. 1″ or 1¼″ wide, each **$1.20**

4. Sling strap snap swivel (quick detachable) complete for forearm. 1″ or 1¼″ wide, each **$1.20**

Whelen Gunsling, best oiled leather, ⅞″ wide **2.50**

Same 1¼″ wide **3.00**

Regulation Army 1907 Gunsling, leather, ¼″ wide, used, subject to prior sale **1.00**

Butt Plates

Steel Butt-plate, with fancy border, checkered, German type, with trap, 5¼″ x 1 11/16″ **$7.50**

Same, without trap **4.00**

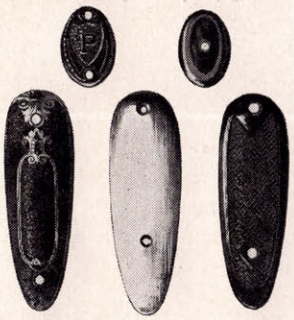
Same, not checkered, no border, in white **1.00**

Steel Butt-plate, checkered, Winchester type **1.00**

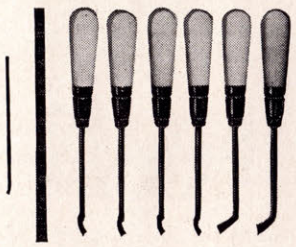
Pistol Grip Caps, Bakelite, Composition Material, plain or with checkered interior **$ .50**

Fancy with any initial. Size 1 11/16″ x 1 5/16″ .. **$ .75**

Pistol Grip Caps, plain steel with border, 1 13/16″ x 1 5/16″ in white **$1.25**



Checkering Tools

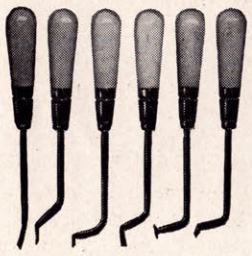


These Checkering Tools have proved to be unquestionably the best over a number of years. Each set comprises a starting tool, three different widths of checkering, bordering, and cleaning out tools, and a needle file. Each tool equipped with handle.

Price Per Set **$6.00** Postpaid

Standard set with steel shanks and tool on each end of shank **$4.00** per set.

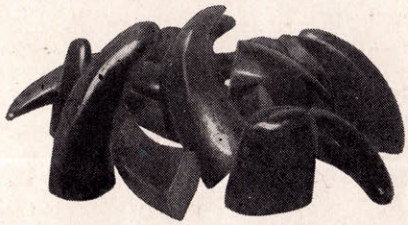
Bottoming Tools



Whether you are a professional or an amateur, you'll find these Bottoming Tools extremely useful for smoothing and levelling bottoms of all cuts, and bedding correctly. This complete set of six tools is designed to give you easy and efficient working in all possible directions and depths.

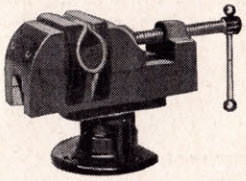
Price per Set **$6.00**

Buffalo Horn



Finest Asiatic buffalo horn, for fore-end tips, pistol grip caps, etc. Easily cut and shaped with hack saw and file. Use sandpaper and rouge on cloth buffing wheel for polishing. Takes glossy jet black polish. About ½ pound is usually sufficient for one fore-end tip or two grip caps. Price **$2.00** pound.

The Guncraftsman's Vise Outfit



Yankee Bench Vise (extra sturdy) **$7.50**

"National" Wooden Vise Blocks

Felt-lined, flat face, per pair **$1.00**

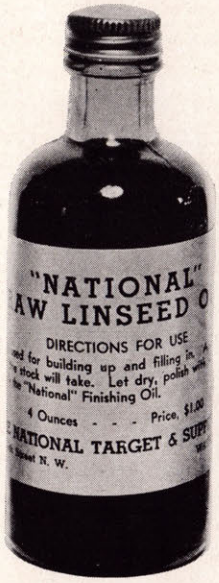
Felt-lined, contoured for rifle, per pair **1.50**

Cleaning Bench Brace. (To be used with vise for resting objects worked on **2.00**

$12.00

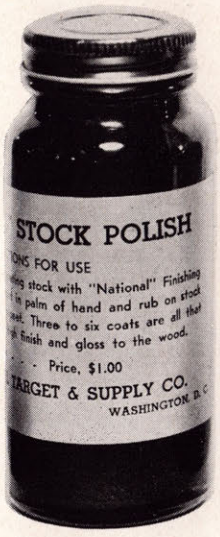
Club Price on above set **$10.00**

National Filler Oil



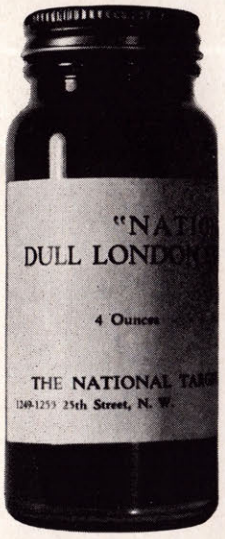
When the stock has been completed and sandpapered smooth, or when an old stock has had the old finish removed and has been sandpapered smooth, it should then be given three coats of filler oil. The coat is put on thick, and the stock is set aside to let the oil soak in, without handling, for 24 hours before another coat is applied. Owing to the difficulty of mixing, we have prepared this filler oil for the convenience of gunsmiths, and have it packed in 4 ounce bottles. Price, per bottle ..... **$ .50**

National Stock Polish



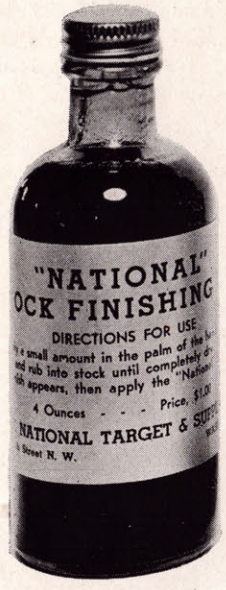
Finally, after as many coats of finishing oil as desired have been rubbed in, the stock should have about half a teaspoonful of National Stock Polish rubbed on it; let it set for five minutes, and then rub it off with a piece of felt or other soft cloth. At any time, if the stock loses its fine polish from rain or sweat, it can be restored with the National Stock Polish in the same manner. Price for 2 ounce jar..... **$1.00**

National Dull London Stock Polish



To be used between the finishing oil and the stock polish when the velvet like, dull gloss London finish, as seen on expensive British guns stocks, is desired. Use it on a piece of felt. Rub all surfaces of the stock for about five minutes so that this slight abrasive will cut the surface to a dull, velvet finish. Finally rub all the polish off you can by rubbing with the grain of the wood; and the stock which has been checkered should have the polish rubbed out of the checking with an old tooth brush. Then, when the stock has dried, apply the National Stock polish as above. Price for 4 ounce jar ..... **$ .50**

National Stock Finishing Oil



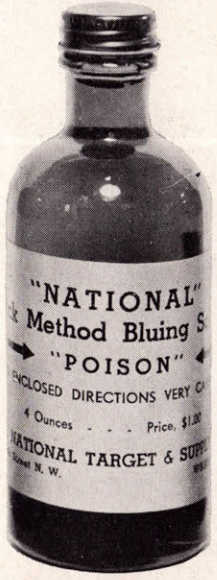
After the stock has had three coats of filler oil, it should be finished and the grain brought out with the National Stock Finishing Oil. About a half teaspoonful is placed in the palm of the hand and is rubbed well into the wood until the surface begins to feel sticky. Then, with the hand rub the grain to give an even coating of the sticky oil, and set the stock aside for 48 hours without handling. Four coats put on in this manner 48 hours apart gives a fair finish, but double this number is better, and the more the stock is polished 48 hours apart, the better the finish becomes. Price for 4 ounce bottle **$1.00**

Wooden Bottle Holder

We have a wooden bottle holder for holding three of the bottles or jars of stock finishing oils and polishes that keeps them in one place on the work bench, and assures against upsetting. Neat, handy, and a great convenience.

Price ..... **$ .50**

National Quick-Method Bluing Solution



For the blueing of rifle and gun barrels, actions, and parts.

Two things necessary besides the solution are: BOILING soft water and a clean cotton cloth. Use a tin or iron tank long enough to accommodate your gun barrels—one about 34 to 40 inches long, three inches wide and four inches deep will hold all kinds of barrels, and it can be bent from one piece of tin with end soldered in.

The tank is easily heated over an inexpensive three burner kerosene or gas stove.

After your barrels are well polished and all marks of emery cloth removed with crocus or steel wool, carefully remove all grease and finger prints. The best way to do this is to boil the barrels in strong lye water for five minutes and when dry apply a small quantity of powdered lime; this if carefully applied will ensure the removal of all grease. Remember, all marks that show on the barrels BEFORE they are blued will show AFTER.

Have your tank full of soft BOILING WATER, for the success of the work depends on keeping water boiling and the work hot. Place the Bluing Solution in a wide mouthed bottle, and tie it in one end of the tank of boiling water. Make a swab from a small piece of soft sponge or clean cotton cloth tied to the end of a piece of white pine; put it in the solution and let it become hot. After the barrels have been in the boiling water two minutes, take them out with a wire hook and allow to dry with their own heat, then take the swab out of the solution, squeezing out all the solution you can against the neck of the bottle and go over your barrels with the swab as quickly as you can, using long, even strokes. As soon as all parts are covered, plunge into the boiling water again to kill any further action of the solution. Leave in boiling water three minutes, take out with a wire hook and remove all loose rust that has formed on the barrels. This is best removed with steel wool or a fine circular wire wheel attached to a motor. Always handle with cloth, and rub with light, even strokes, being sure that your fingers do NOT come in contact with the work. Clean cotton gloves should be worn.

You will see the color on the barrels as soon as the solution touches them, and a light rust will form on the steel. The action of the hot water kills the rust, and it should be wiped off with the steel wool or wire wheel, leaving the steel blue. After burnishing the work well, put back in the tank for three minutes, take out and apply another coat of solution. Repeat the process until you get the color wanted. EVERY COAT MAKES THE COLOR DEEPER, AND ABOUT EIGHT COATS WILL MAKE IT A DEEP BLUE. When the barrels have assumed the color you wish, boil for three minutes, take out and wipe them with a WOOLEN CLOTH saturated with linseed oil, and let them stand until cool.

All work must be done quickly. Get the barrels back in the BOILING water immediately after coating with solution. Have solution as hot as possible, and KEEP YOUR FINGERS OFF THE BARRELS. This solution is capable of bluing "Poldi-anticora" steels, but not truly stainless steels.

If these directions are followed you cannot go wrong. The result will be a blue on your gun that is better than any factory blue and one that will LAST for years.

Four ounce bottle sufficient for two barrels and actions **$1.00**

Quart bottle (32 ounces) **6.00**

Section XI

USEFUL INFORMATION

TABLE OF BALLISTICS OF *WINCHESTER* CARTRIDGES

FIRED FROM WINCHESTER RIFLES AND FROM STANDARD REVOLVERS

Rifle Ballistics of Winchester Super Speed Rim Fire Cartridges

Name of Cartridge	*Weight of Bullet Grains*	*Velocities of bullet Ft. per sec. at Muzzle*	*Energies of bullet Ft. lbs. at Muzzle*	*Trajectories for 100 yds. Ht. at 50 yds. Inches*
.22 Short Super Speed	29	1150	85	4.3
.22 Short Super Speed Hollow Pt.	27	1150	79	4.3
.22 Long Super Speed	29	1285	106	3.7
.22 Long Super Speed Hollow Pt.	27	1285	103	3.8
.22 Long Rifle Super Speed	40	1400	174	2.9
.22 Long Rifle Super Speed Hollow Pt.	40	1400	174	2.9
.22 W. R. F. Super Speed	45	1445	210	2.7
.22 W. R. F. Super Speed Hollow Pt.	40	1440	184	2.8

Rifle Ballistics of Winchester Rim Fire Cartridges

.22 Short Staynless	29	1000	64	5.2
.22 Short Lestayn	29	1000	64	5.2
.22 Long Staynless	29	1055	71	4.8
.22 Long Lestayn	29	1055	71	4.8
.22 Long Rifle Staynless	40	1100	107	4.3
.22 Long Rifle Lesmok (Precision 200)	40	1100	107	4.3
.22 Extra Long Staynless	40	1050	98	5.0
.22 W. R. F. Staynless	45	1100	122	4.4
.22 Winchester Automatic Staynless	45	1035	107	4.6

Revolver Ballistics of Winchester Rim Fire Cartridges

Name of Cartridge	*Barrel Length, Inches*	*Weight of Bullet, Grains*	*Velocities of Bullet, Feet per Second at Muzzle*	*Energies of Bullet, Ft. Lbs. at Muzzle*
.22 Short Staynless Super Speed	6	29	1035	69
.22 Short Staynless	6	29	925	55
.22 Long Staynless Super Speed	6	29	1215	81
.22 Long Staynless	6	29	930	56
.22 Long Rifle Staynless Super Speed	6	40	1135	114
.22 Long Rifle Staynless	6	40	975	84
.22 W. R. F. Staynless Super Speed	6	45	1170	137
.22 W. R. A. Staynless	6	45	985	97

VELOCITIES, ENERGIES, PENETRATIONS, AND TRAJECTORIES DEVELOPED BY WINCHESTER CARTRIDGES AND RECOILS OF WINCHESTER RIFLES

Penetration is not the measure of striking energy. As an illustration, take the figures in our table for the .30 Winchester Centerfire Cartridge. With the soft point bullet the penetration is but 11 boards whereas that cartridge with the full patch bullet will penetrate 50 boards The energies of both are the same. All other things being equal, the bullet which resists deformation will give the maximum penetration. The soft point bullet, which generally stops inside the skin of the animal, delivers its whole energy; while the full patch bullet, which passes through the animal, may make a less severe wound. Penetration, therefore, is not a good test of killing power. If the target is harder or softer than that described in our table, the results obtained will not be the same; nor will the comparative results show corresponding differences. The rifles used in determining the following ballistics were equipped with barrels of standard lengths.

NAME OF CARTRIDGE	Weight of Bullets Grains	Velocities of Bullets, Feet per Second		Energies of Bullets in Foot lbs.		Penetrations at 15 ft. in 7/8-inch Soft Pine Boards			Trajectories, Inches			Free Recoil in Foot Lbs.	
		At Muzzle	At 100 yds.	At Muzzle	At 100 yds.	Lead	Soft Point	Full Patch	100 yds. Hgt. at 50 yds.	200 yds. Hgt. at 100 yds.	300 yds. Hgt. at 150 yds.	Smokeless Powder	Black Powder
6 m/m	112	2560	2230	1635	1240		12	60	.7	3.5	9.0	7.0	
.22 Winchester Centerfire	45	1540	1125	240	125	8			2.5	13.5		.4	.5
.22 Winchester Hornet	45	2400	1952	577	381		8		.9	4.6	13.0	0.45	
Super Speed .22 Winchester Hornet Hollow Point	46	2625	2162	705	478				.75	3.75	10.5	0.71	
Super Speed .220 Win. Swift	46	4140	3150	1750	1010		13.0		0.4	1.70	4.5	4.50	
Super Speed .220 Win. Swift	48	4140	3490	1830	1300		13.0		0.3	1.30	3.2	4.65	
Super Speed .220 Win. Swift	56	3760	3060	1765	1165		13.0		0.3	1.40	3.5	4.85	
.25–20 Single Shot	86	1410	1135	380	245	9	8	11	2.5	13.5		.5	.7
.25–20 Winchester	86	1375	1110	360	235	9	8	11	3.0	14.0		.8	.9
Super Speed .25–20 Winchester	60	2200	1820	645			9		1.3	8.2	21.0		
.25–20 M. 92 Special, W. H. V.	86	1730	1410	570	380		10	20	2.0	9.0		1.5	
.250–3000 Savage	87	3050	2700	1795	1410		16		0.5	2.5	6.0		
.25–35 Winchester	117	2250	1935	1315	970		11	44	1.0	5.0	13.0	4.5	
Super Speed .257 Win. Roberts	87	3200	2816	1980	1532		10.0		0.5	2.3	6.1	6.36	
Super Speed .257 Win. Roberts	100	2900	2586	1870	1486		10.0		0.6	2.6	7.0	6.93	
Super Speed .257 Win. Roberts	117	2650	2379	1825	1471		12.5		0.7	3.2	8.2	7.07	
.270 Winchester	130	3160	2970	2880	2550		17	90	0.5	2.0	4.5	14.3	
.270 Winchester	150	2850	2600	2710	2250		13		0.65	3.0	8.0	14.6	
7 m/m	175	2285	2020	2030	1590		12		0.9	4.3	10.5	10.0	
7.65 m/m	215	2035	1810	1975	1560		12		1.0	5.3	13.5	12.4	
Super Speed 8 m/m Mauser	170	2540	2390	2430	2155		13.0		1.1	3.5	7.2		
9 m/m	280	1805	1605	2025	1605		13		1.5	6.5	13.5	16.0	
.30 Winchester	170	2200	1920	1825	1395		11	50	1.0	4.5	12.0	9.0	
Super Speed .30 Winchester	110	2550	2250	1590	1240		12		1.0	3.5	8.5	8.6	
.30 Army, Pointed	150	2560	2330	2180	1810				.7	3.5	8.0		
.30 Army, Pointed	180	2500	2315	2500	2140				.8	3.3	8.0		
.30 Army	220	2100	1800	2160	1580		13	58	1.0	5.5	13.0	11.5	
.30 Govt. Model '03	220	2200	1990	2365	1935		18	68	1.0	4.5	11.0	15.0	
.30 Govt. Model '06, Pointed	150	3000	2760	2995	2545		16	75	.5	2.3	5.7	13.0	
.30 Govt. Model '06, Ptd. Exp.	180	2700	2505	2915	2505		17		.5	2.5	7.0	17.5	
.30 Govt. Model '06	220	2400	2185	2810	2340		17		1.0	4.0	9.0	19.0	
.30 Govt. Model '06 Boattail	172	2700	2540	2785	2465		17		0.5	2.5	6.0	16.0	
.303 British	215	2000	1775	1910	1505		13	56	1.0	5.5	14.0	11.0	
.32 Winchester Self-Loading	165	1390	1165	710	500		10	17	2.5	12.5	33.0	2.0	
.32 Winchester	115	1225	1010	380	260	7	7	10	3.5	17.0		1.1	1.2
Super Speed .32 Winchester	80	2000	1690	710	508		9		1.4	7.6	23.0		

VELOCITIES, ENERGIES, PENETRATIONS, AND TRAJECTORIES DEVELOPED BY WINCHESTER CARTRIDGES AND RECOILS OF WINCHESTER RIFLES

Penetration is not the measure of striking energy. As an illustration, take the figures in our table for the .30 Winchester Centerfire Cartridge. With the soft point bullet the penetration is but 11 boards whereas that cartridge with the full patch bullet will penetrate 50 boards. The energies of both are the same. All other things being equal, the bullet which resists deformation will give the maximum penetration. The soft point bullet, which generally stops inside the skin of the animal, delivers its whole energy; while the full patch bullet, which passes through the animal, may make a less severe wound. Penetration, therefore, is not a good test of killing power. If the target is harder or softer than that described in our table, the results obtained will not be the same; nor will the comparative results show corresponding differences. The rifles used in determining the following ballistics were equipped with barrels of standard lengths.

		Velocities of Bullets, Feet per Second		*Energies of Bullets in Foot lbs.*		*Penetrations at 15 ft. in 7/8-inch Soft Pine Boards*			*Trajectories, Inches*			*Free Recoil in Foot Lbs.*	
NAME OF CARTRIDGE	*Weight of Bullets Grains*	*At Muzzle*	*At 100 yds.*	*At Muzzle*	*At 100 yds.*	*Lead*	*Soft Point*	*Full Patch*	*100 yds. Hgt. at 50 yds.*	*200 yds. Hgt. at 100 yds.*	*300 yds. Hgt. at 150 yds.*	*Smokeless Powder*	*Black Powder*
.32 M. 92 Special, W. H. V.	115	1635	1305	685	435		7	17	2.0	10.5	28.0	2.5	
.32 Winchester Special	170	2250	1925	1910	1395		12	52	1.0	4.5	12.0	9.5	
.32 Winchester Special Superspeed	110	2550	2375	1590	1380		12		1.0	3.5	8.5	8.6	
.32-40	165	1430	1195	745	525	9	9	18	2.5	12.0	32.0	3.0	4.1
.32-40 W. H. V.	165	1750	1475	1120	800		10	30	1.5	8.0	21.0	5.5	
.33 Winchester	200	2200	1880	2150	1575		13	45	1.0	5.0	13.0	13.5	
Super Speed .348 Winchester	150	2920	2430	2840	1970		15.0		0.7	3.2	9.7	21.80	
Super Speed .348 Winchester	200	2535	2210	2860	2170		17.0		0.9	4.3	12.0	22.55	
.35 Winchester Self-Loading	180	1395	1150	780	530		9	17	2.5	13.0	34.0	3.0	
.35 Winchester	250	2195	1945	2670	2100		15	56	1.0	4.5	12.0	20.0	
.351 Winchester Self-Loading	180	1855	1540	1380	950		13	26	1.5	7.5	20.0	5.5	
.375 H & H Magnum	235	2608	2298	3750	2750				0.7	3.31	8.95		
.375 H & H Magnum	270	2560	2237	3924	3000				0.75	3.46	9.12		
.375 H & H Magnum	300	2450	2165	4000	3140				0.65	2.86	7.25		
.38 Winchester	180	1325	1055	700	445	8	10	12	3.0	15.5	41.0	3.0	4.5
.38 Model 92 Special W. H. V.	180	1770	1390	1255	770		10	20	2.0	9.5	25.0	6.5	
.38-55	255	1320	1130	990	725	10	14	14	3.0	13.5	34.0	6.0	8.5
.38-55 W. H. V.	255	1590	1365	1430	1055		10	23	2.0	9.5	24.0	9.5	
.38-56 Winchester	255	1395	1190	1105	800	11	12	17	2.5	12.5	31.0	5.5	8.0
.38-72 Winchester	275	1475	1285	1330	1010	16	15	25	2.5	10.5	27.0	8.5	9.5
.40-60 Winchester	210	1533	1220	1095	695	10			2.5	11.5	32.0		7.0
.40-65 Winchester	260	1370	1145	1080	760	9	11	15	2.5	13.0	33.0	7.0	8.5
.40-72 Winchester Smokeless	300	1425	1215	1350	985		14	22	2.5	12.0	30.0	10.0	
.40-82 Winchester	260	1490	1235	1285	885	12	11	18	2.5	11.0	30.0	9.0	12.0
.401 Winchester Self-Loading	200	2135	1750	2020	1360		14	34	1.0	5.5	16.0	11.5	
.405 Winchester	300	2200	1925	3220	2465		13	48	1.0	4.5	12.0	28.0	
.44 Winchester	200	1300	1035	750	475	9	10	13	3.0	16.0	42.0	4.0	5.5
.44 Model 92 Special W. H. V.	200	1565	1225	1085	670		10	19	2.5	11.5	31.0	6.0	
.45-60 Winchester	300	1315	1090	1150	795	12			3.0	14.5	37.0		9.5
.45-70 W. H. V.	300	1885	1560	2365	1620		13	25	1.5	7.0	20.0	16.0	
.45-70-405 Govt.	405	1320	1145	1560	1175	13	12	18	3.0	13.0	33.0	12.0	16.0
.45-75 Winchester	350	1385	1170	1495	1060	15			3.0	13.0	33.0		13.5
.45-90 Winchester	300	1530	1250	1565	1040	13	15	19	2.5	11.0	30.0	11.5	16.5
.50-110 Winchester Express	300	1605	1250	1720	1040	11	13	20	2.0	11.0	31.0	11.5	19.5

REVOLVER AND PISTOL BALLISTICS OF WINCHESTER CENTER FIRE CARTRIDGES

Caliber	Bullet Weight grains	Muzzle Vel. Ft. per sec.	Muzzle Energy ft. lbs.	Penetration at 15 ft. in 7/8 in. Soft Pine Boards
.25 Auto Colt	50	800	71	3
.32 S&W Lead	85	700	93	3
.32 S&W F. P.	85	700	93	3.5
.32 S&W Long	98	810	143	4
.32 S&W Long F. P.	98	810	143	4.5
7.63 Mauser	86	1397	373	11
7.65 Luger	93	1225	310	11
.32 Short Colt	80	790	110	3
.32 Long Colt Inside Lub.	82	705	91	3
.32 Colt N. P.	98	706	109	3
.32 Auto Colt	74	965	152	5
.32 Win. Lead	100	974	210	5
.32 Win. M. P.	115	954	232	6
.35 S&W Auto	76	809	110	
Super Speed S&W .357 Magnum	158	1510	801	12.5
9 M/M Luger	125	1110	340	10
.38 Short Colt	130	705	144	4
.38 Colt N. P.	150	675	152	4
.38 Colt Spl.	158	858	258	6.5
.38 Long Colt	150	772	198	6
.38 Auto Colt	130	1300	487	10
.380 Auto Colt	95	890	168	5.5
.38 S&W Lead	145	700	158	4
.38 S&W F. P.	145	700	158	4.5
.38 S&W Lead	200	600	160	5
.38 Spl. Superspeed Lead	158	1075	405	7.5
.38 Spl. Superspeed M. P.	158	1075	405	10
.38 S&W Spl. Lead	158	857	258	7
.38 S&W Spl. Lead	200	735	240	7.5
.38 S&W Spl. F. P.	158	857	258	7.5
.38 S&W Spl. Mid Range Sharp Corner	148	750	185	
.38 S&W Spl. Full Charge Sharp Corner	148	850	237	
.38 Win. M. P.	180	986	389	7
.41 Short Colt	160	707	178	4
.41 Long Colt	196	706	217	5
.44 S&W Amer.	205	682	212	4
.44 S&W Russian	246	680	252	4
.44 S&W Speical Lead	246	755	312	7.5
.44 S&W Spl. F. P.	246	755	312	8
.44 Win. M. P.	200	919	375	7
.45 Colt	255	860	420	6
.45 Auto Colt	230	850	367	6
.455 Colt	265	757	337	5
.455 Colt Mark II	265	760	340	5

SIGHT ADJUSTMENT AND USE OF LYMAN 48 AND SIMILAR SIGHTS

The Lyman No. 48 Rear Sight will be found excellent for either hunting or target shooting. For hunting, the largest aperture should be used, and the gold bead on the front sight should be rubbed bright. For target shooting, screw the cup disc in the aperture and blacken the gold bead by holding in the smoke of burning camphor or a candle.

The sight adjusts for both elevation and windage, the principle of adjustment being similar to the well known machinist's micrometer. Elevation and windage screws are provided with indents which "click". The clicks can be easily felt. One click changes the point of impact a half minute, or ½ inch at 100 yards, 1 inch at 200 yards, 2 inches at 400 yards, and so on.

The knurled head of the elevation screw is divided into 5 numbered graduations of minutes, and further sub-divided with lines indicating half minutes. The elevation scale on the slide has lines for 5 minutes. Turning the elevation screw a complete revolution equals 5 minutes or 1 graduation on the slide. One minute equals 1 inch, or half a minute equals half an inch, and 5 minutes equals 5 inches change in point of impact at 100 yards, or proportionately at other distances.

The windage scale is graduated in lines which have a value of 4 minutes. Turning the windage screw one complete revolution changes the windage one mark on the scale or 4 minutes, or 4 inches at 100 yards. The windage screw has 8 clicks for each revolution, therefore, each click equals ½ inch per hundred yards.

Always move the rear sight in the direction you wish your bullet to strike. If you wish your bullet to strike higher at a given range, raise your elevation. If you wish to strike further to the right, turn the windage screw so the aperture moves to the right.

Sighting in and Zeroing: To sight in the rifle for a given range and ammunition, a steady rest should be provided. The best rest is a steady table with a box about 8 inches high on top, and a folded blanket on top of the box. Sit down behind the table, rest the forearm on the blanket, and the elbows on the table top. Aim at the target set up at the desired range. In aiming, center the top of the front sight in the aperture, and hold front sight just touching the bottom edge of the bull's-eye. Squeeze the trigger carefully so as not to disturb the aim by flinching. Fire a number of shots and note where the bullets strike the target. Then in accordance with the principles of adjustment above, move the sight to cause the bullets to strike exactly where you aim (bottom of bull's-eye). Verify by firing a few more shots.

Presuming that the shooter has accurately sighted in and zeroed his rifle to 100 or 200 yards with a given cartridge, then by reference to the following tables, he will know at once exactly where he should set the elevation of his rear sight for shooting at all other distances with that ammunition. For example, if after sighting the rifle in at 100 yards with 180 grain .30-06 ammunition, the rear sight elevation is found to read 6 minutes (1 graduation up on slide, and figure "1" opposite index on screw head), then referring to the table, the correct 200 yard elevation will be 8.5 minutes, 300 yards—11.5 minutes, and so on, simply adding the number of minutes and half minutes raise from one distance to the next.

TABLE OF ANGLES OF ELEVATION

Caliber.	Bullet. grs.	M. V. f. s.	Minutes of Angle									
			100	200	300	400	500	600	700	800	900	1000 yds.
.22 Hornet	45	2400	6.0	8.7	15.5	28.0	40.0					
.22 Hornet	46	2625	6.5	8.5	14.0	25.5	38.0					
.220 Swift	46	4140	0.5	1.0	3.0	7.5	15.0					
.220 Swift	48	4140	0.5	1.0	2.5	5.5	10.5					
.220 Swift	56	3760	1.0	2.0	4.0	6.5	12.0					
.25 Rem. Auto.	87	2700	2.5	5.5	8.5	13.0	18.0	24.0	31.0			
.25 Rem. Auto.	117	2250	3.0	7.0	12.0	17.5	24.0	32.5	42.0			
.250–3000	87	3050	2.0	4.5	6.5	9.0	13.5	18.0	23.0	28.0	35.0	42.0
.250–3000	100	2670	2.0	4.9	8.0	12.0	17.0	23.0	30.0	39.0	49.0	60.0
.257 Roberts	87	3200	1.7	4.0	6.5	10.0	14.5					
.257 Roberts	100	2900	2.2	4.7	7.9	11.8	16.5					
.257 Roberts	117	2650	2.6	5.5	9.2	13.5	18.7					
.270 Win.	130	3160	2.0	4.0	5.5	8.0	12.0	16.0	20.0	24.5	30.0	36.0
.270 Win.	150	2670	3.0	6.2	9.7	14.8	20.5	28.0	36.0	45.0	55.0	65.0
7 mm Mauser	139	2800	2.0	4.3	7.3	10.0	14.0	18.5	23.5	30.0	37.0	45.5
7 mm Mauser. B. T.	175	2300	3.0	6.0	10.0	15.0	21.0	28.0	36.0	45.0	55.0	65.0
7 mm Mauser	175	2550	2.7	5.7	9.3	12.9	17.3	22.2	27.8	34.0	41.4	49.8
7.65 mm Mauser	215	2035	4.0	9.0	14.0	21.0	29.0	38.0	49.0	62.0	72.0	85.0
.30–06 U. S.	110	3500	1.5	3.0	5.0	7.5	10.0	13.5	17.5	22.0	28.0	35.0
.30–06 U. S.	150	2700	2.5	5.0	8.0	12.0	16.0	21.0	26.0	32.5	40.0	48.0
.30–06 U. S.	150	3000	2.0	4.0	6.5	9.5	12.5	16.5	20.5	25.5	31.5	38.0
.30–06 U. S. B. T.	172	2700	2.3	4.9	7.7	10.8	14.2	17.9	22.0	26.7	31.9	37.7
.30–06 U. S.	180	2700	2.5	5.0	8.0	10.5	15.0	19.0	23.0	29.0	35.0	42.0
.30–06 U. S. B. T.	180	2720	2.5	5.2	8.2	10.8	15.3	19.0	22.5	27.0	32.0	37.6
.30–06 U. S. S. P.	180	2645	2.8	5.8	10.0	13.0	19.0	26.0	34.0	44.0	55.0	67.0
.30–06 U. S. B. T.	220	2330	4.0	7.2	10.3	15.2	20.0	25.5	32.0	39.5	46.5	56.0
.30–06 U. S.	220	2450	4.0	7.0	10.0	14.5	19.5	25.0	32.0	39.5	48.5	58.5
9 mm Mauser	280	1805	5.0	11.0	19.0	26.0	34.0	44.0	56.0	69.0	83.0	96.0

ANGLES OF ELEVATION

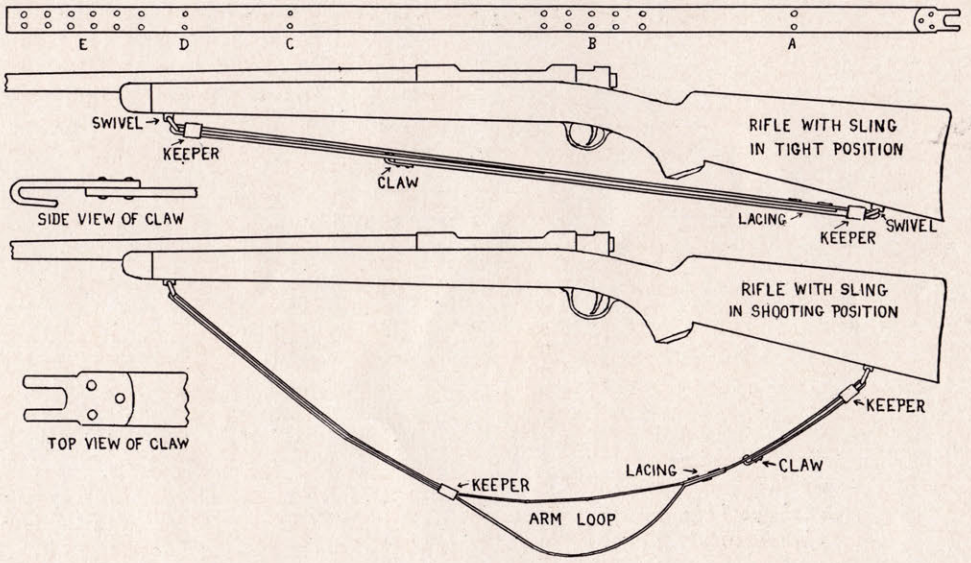
.22 Long Rifle Cartridges

Range	.22 L. R. Regular M.V. 1100 f.s.		.22 L. R. High Speed M.V. 1400 f.s.	
Yards	Minutes	Half Minutes or Clicks	Minutes	Half Minutes or Clicks
25	3.4	6.8	2.3	4.6
50	7.1	14.2	4.7	9.4
75	10.9	21.8	7.5	15.0
100	15.1	30.2	10.5	21.0
125	19.2	38.4	13.7	27.4
150	23.8	47.6	17.2	34.4
175	28.3	56.6	20.7	41.4
200	33.0	66.0	24.6	49.2
225	37.9	75.8	28.4	56.8
250	43.2	86.4	32.6	65.2
275	48.5	97.0	37.0	74.0
300	53.7	107.4	41.3	82.6

INTER-MOUNT DISTANCE WITH TELESCOPE SIGHTS

With Lyman, Fecker, and Unertl Telescope Sights having micrometer click mountings, if the blocks be spaced 7.2 inches between centers, then each graduation on the adjusting screw heads has a value of ½ minute (½ inch per hundred yards) and each click has a value of ¼ minute (¼ inch per hundred yards).

To determine the value of the graduations and clicks when it is necessary to locate the bases at some distance other than 7.2 inches—divide the distance between centers of blocks into 3.6 and the result will be the number of tenths of a minute which one graduation is worth. Example: If the distance between centers of blocks is 6 inches; divide 6 into 3.6, equals .6. That is, each graduation has an adjusting value of .6 minute (6/10 inch per hundred yards) and each click has an adjusting value of .3 minute (3/10 inch per hundred yards).



The Whelen type of gun sling for Sporting Rifles

The Rifle Sling and Its Use

By Townsend Whelen

WHEN one starts in earnest to train himself as a rifleman, one of the first things that he discovers is the very great assistance that a shooting rifle sling is in holding steady. In the prone, kneeling, and sitting positions, it is of such assistance that anyone not using it is at once hopelessly handicapped when competing against one who does use it and who knows how to use it properly. Not only will it enable the rifle shooter to hold far steadier in these positions than he has ever held before, but it will let him hold steadily even when he has buck fever, or when he is panting and trembling from exertion. It is of little use in the standing position.

Many think that the use of the rifle sling is limited to target shooting, but this is not so. It can often be used for hunting and is of just as much use there as on the range. It is true that it is of little or no use in thick woods hunting where all shots are taken in the standing position. In two seasons in New Brunswick, where the woods are thick, I did not use it a single time. In Ontario, where one gets many shots on lake shores, I used it on just half of my shots. On my hunting trips in British Columbia, Alberta, Montana, and California, I found it a very great help in over three-fourths of the shots I obtained.

If any of my readers have the chance to go to the National Rifle Matches held each year at Camp Perry, they will find there 3,000 of the pick of the expert riflemen of the country, and they will also find that every one of them are using the same type of rifle sling, invariably using it when firing prone, sitting, or kneeling, and, moreover, that every one of them uses it in exactly the same way. This method of using the rifle sling has been in vogue among long-range riflemen certainly for seventy-five years, and the fact that, despite American ingenuity and inventive genius, no one has yet found a better way, greatly simplifies my problem of telling my readers exactly how a rifle sling should be made, attached to the rifle, and used.

The sling must be capable of being formed into a loop which binds the left arm to the rifle in such a way that the bones of the arm, and not the muscles, provide a firm and steady support of the rifle on the ground or knee as a base. If one will examine the illustrations of the firing positions, he will see that the body and rifle are held by the bones alone, the joints being practically locked, and the muscles not being under tension.

There are two types of rifle sling in use, both being of essentially the same design. The first and the best known of these is the military sling known as the "Gun Sling, Leather, Model 1907." It is the service sling used on our Springfield rifle. It is made only for rifles having sling swivels with a width of bow of 1¼ inches, that is, the Springfield, Krag, and Winchester Model 52 rifles. It is the best sling for target practice, but it is heavy, thick, and wide for our light hunting rifles. There is also a web variety of it, but this has a tendency to slip and give one an offshot, and it is not popular.

On sporting rifles, the sling usually used is one with which the writer's name is frequently coupled, but really it was designed by Brigadier General George C. Shaw, when he was a lieutenant and shooting on the Army Infantry Rifle

Fig. 1—Putting the arm through the loop

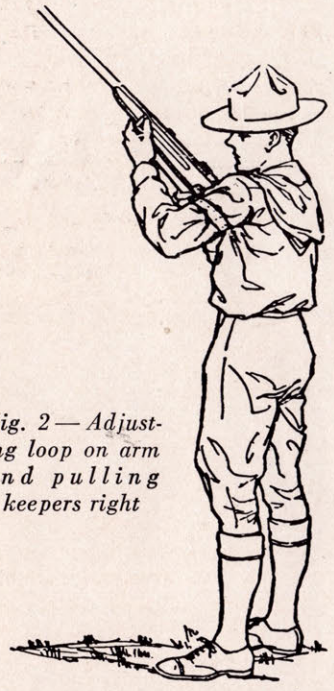


Fig. 2 — Adjusting loop on arm and pulling keepers right

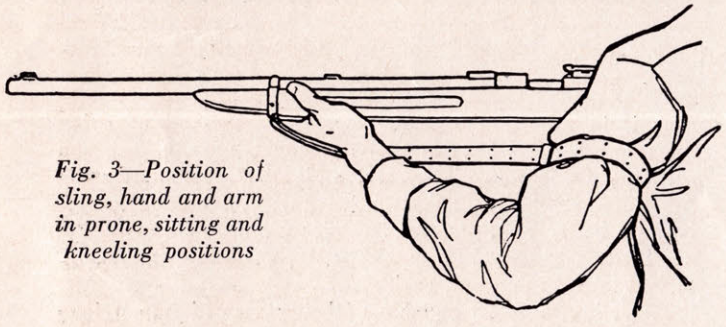


Fig. 3—Position of sling, hand and arm in prone, sitting and kneeling positions

Team with the writer. While a few custom rifle makers have this sling for sale, the sportsman can make his own, or to have a harness maker construct it. It is made of a single leather strap, of rather thick oiled leather, either 7/8 inch or 1 inch wide, depending on the width of the bows of the sling swivels on the rifle, and should be about 52 inches long. At one end a hook with double claw is riveted to it (see drawing). This claw hook is made of sheet brass or sheet steel, about 1/16 inch thick, cut out flat and the hooks then bent over. The claw hooks fasten in double holes punched in the strap to receive them at the proper positions, one set of holes (C) for pulling the strap tight, another for adjusting it just loose enough for carrying the rifle over the shoulder (D), and the third set of holes are in the tailpiece of the strap into which the hook is snapped when using the sling in shooting (A). Two other series of holes are punched at (B) and (E), and a rawhide belt lacing laced through these forms the shooting loop for the left arm. This loop, measuring from the front sling swivel, should be somewhere between 16 and 20 inches long, depending upon the length of arms of the shooter, so the series of holes (B) and (E) should be between 32 and 40 inches apart, a number being punched in the vicinity of (B) to provide for adjustment of the loop to proper length. Two leather keepers are made as shown.

The front sling swivel should be secured to the forearm near the tip, or may be secured to the barrel, several inches in front of the forearm tip. Its position depends upon the length of one's arms. It should not be less than 14 inches in front of the trigger. The rear sling swivel should be about 2½ inches from the toe of the stock.

The ordinary rings for sling with the bows and hooks usually provided on cheap rifles will do, but they are a poor apology for good swivels. They rattle, they come loose, they revolve and the sling gets all tangled up. The very best are the quick detachable swivels sold by the larger custom rifle makers making a specialty of built-to-order rifles. This catalogue lists the best swivels.

Some German swivels are also very good. The front-sling swivel must be firmly attached to the forearm and barrel as a pull of about 25 pounds comes on it. It may either be attached to a barrel band by a bold passing through the forearm, or the bolt may have a large nut on the under side of the forearm.

The front portion of the sling back to the lacing is called the "loop." The single piece of sling from the lacing to the claw hook is called the "tailpiece." The rifle is normally carried with the sling drawn taut in the tight position as shown in the drawing. To adjust for firing, unhook the claw and draw the sling down, the tailpiece running through the rear swivel, and hook the tailpiece up on itself, also as shown in the drawing.

To place the sling on the left arm for shooting, hold the rifle in front of you as shown in Figure 1. Shove the right hand between the rifle and the entire sling , and then bring it down and back through the arm loop. Notice particularly that the left arm enters the arm loop from the right. Thrust the arm through the loop until the loop is around the left upper arm just below the armpit, and above the swelling of the triceps muscle on the back of the arm, and pull the forward keeper down to hold it tight there. See Figure 2. Now pass the left hand under the entire sling from right to left,

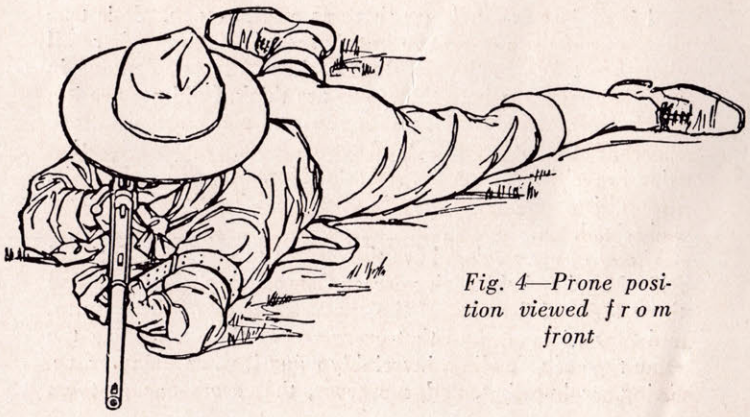


Fig. 4—Prone position viewed from front

and bring it up over the sling and grasp the forearm just in rear of the front sling swivel as shown in Figure 3. Notice that this brings the flat of the strap, and not its edge, against the wrist so the sling will not cut the wrist.

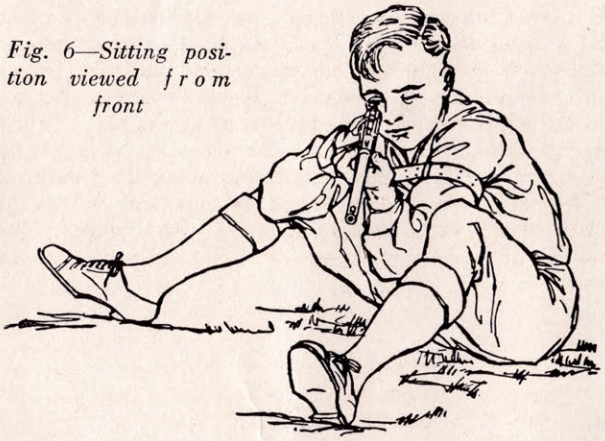
We will describe the prone or lying position first, as this is the steadiest position and the one which should be learned first. With the sling on the arm as described, half face to

Fig. 5—Prone position viewed from right side

the right of the target and lie down flat on the ground, so that instead of lying facing toward the target, your body is inclined 45 degrees to the right of the target. Let me say now that the position is the same for every man no matter what his conformation, so you should get the position exactly right with no variation, except that right now some adjustment in the length of the loop by means of the holes used for lacing will be necessary. The shorter the man and the shorter his arms, the longer must the loop be, because his left upper arm will be nearer the butt.

Place the rifle to the shoulder and assume the firing position, rifle aimed at the target, as shown in Figures 4 and 5. Perhaps you can't get the butt to your shoulder, which is a

Fig. 6—Sitting position viewed from front



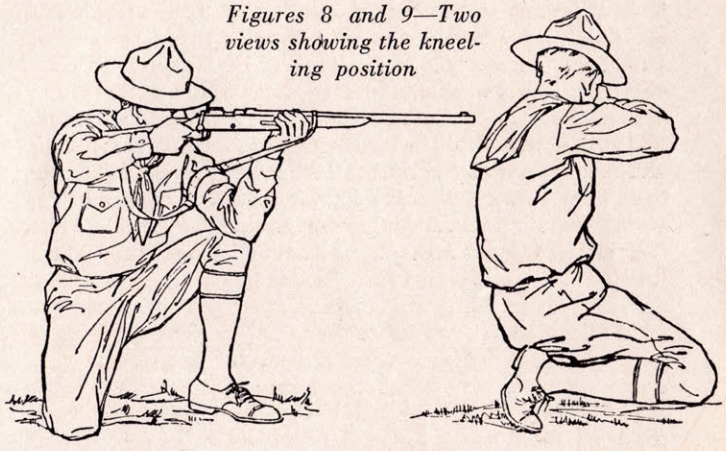
sign that the loop is not adjusted long enough, so lengthen it. In this position, the left hand should grasp the forearm just in rear of the front-sling swivel, the back of the hand almost touching the swivel, except that a small man with very short arms may have to grasp 2 or 3 inches further to the rear. Starting at the front-sling swivel, the sling passes to the left of the left wrist, then the two straps dividing pass around the left upper arm high up above the swelling of the triceps muscle (never down near the elbow). The loop should be tight so that there will be an even tension of about

Fig. 7—Sitting position viewed from right front

25 pounds on the loop portion of the sling. The tailpiece should be absolutely loose with no tension whatever between the loop and the rear sling swivel.

Now here are some very important points about this position which must be observed closely, or the position will be unsteady. The forearm must rest down in the palm of the hand, letting the fingers wrap themselves around the forearm. Straighten the hand out, fingers straight, and let the forearm rest flat on the palm, then wrap the fingers around the forearm, and you will get it right. The left elbow must rest on the ground at a point only 3 or 4 inches to the left of a perpendicular dropped from the rifle barrel to the ground. If it is further to the left than this, the position will be unsteady. Regard the chest and the two upper arms as the three legs of a tripod. If the legs be too far apart or too close together, the tripod will be unsteady. Study Figures 4 and 5 very closely. Dig or pound small holes in the ground for the elbows when you get the right position so the elbows will neither slip nor feel as though they might slip. This position may be extremely uncomfortable at first, but do not vary it. After a day or two, one will become accustomed to it, and then he will be delighted to find that he can hold

Figures 8 and 9—Two views showing the kneeling position



absolutely steady so that he cannot notice that his front sight moves at all on the target. When the position is right, there should be about a 25 pound pull on the loop, and the tailpiece of the sling should be loose.

Rapid fire in this position is executed by keeping the rifle in position at the shoulder, grasping the bolt handle with the right hand, and as the bolt handle is pulled up and back, let the muzzle of the rifle go down and to the right. As the bolt is moved forward and closed, bring the muzzle up and to the left again so that the front sight comes back on the target, keeping the eyes on the target all the time. Then stop the side swinging of the rifle by pressing the comb of the stock tightly between the cheek and the ball of the thumb. A little practice on the floor of one's bedroom with a folded blanket to rest the elbows on will give ability to get off absolutely accurately aimed and squeezed shots at the rate of one every two seconds or less.

Fig. 10—The standing position, showing the windy day adjustment

The sitting position is assumed in almost exactly the same way as the prone position except that the elbows are rested on the flat places on the inside of each kneecap instead of on the ground. Adjust the gun sling on the arm as before. Face at an angle of 45 degrees to the right of the target and sit down. Extend and place the heels so that when aiming in the correct position, the sights will be on the target—that is, get the rough aim by changing position of knees and seat on the ground. See Figures 6 and 7. In this position the left elbow is a little further to the left of a perpendicular dropped from the barrel than in the prone position but otherwise arms, chest, head and sling are the same. Kick holes in the ground for the heels if they feel as though they might slip. Rapid Fire is executed the same as prone, keeping the rifle at the shoulder and the eyes on the target or the game. The sitting positon is used when it is not possible to see the game from the prone position or when the ground is not suitable to lie on and is particularly good for shooting downhill but not for uphill.

To assume the kneeling position, point the left foot at the target, kneel on the right knee, and sit back on the right heel as shown in Figures 8 and 9. The left lower leg is vertical. The left elbow rests just in front of the left kneecap and is almost directly under the rifle. The right elbow is held approximately at the height of the shoulder. Rough aim is gotten by shifting the position of the feet and right knee slightly so that the position of the arms, sling, shoulder, and cheek will remain as described. The kneeling position is not quite as steady as the prone and sitting positions, there being a tendency of the rifle to sway from side to side, which must be corrected by practice. For this reason, it is seldom used by experienced riflemen, as the sitting position can almost always be used where the kneeling position could.

It is doubtful if the gun sling is of much advantage in the standing position. Most of us find that it is not. Sometimes, when one has to shoot in a strong wind, it helps to use the sling as shown in Figure 10. But usually the standing position has to be assumed very quickly for a shot at short range, and there is usually no time to place the sling on the arm, and there is no rest for the elbow to which the sling can bind and clamp the arm.

When one is hunting, the gun sling should be kept in the firing position, that is, with the tailpiece hooked up on itself and the loop ready to put the arm through. Then it takes but an instant to thrust the left arm through the loop and swing the sling into position, this being done while one is getting down into the prone or sitting positions. With a little practice, either position can be assumed and an absolutely accurate shot gotten off in about two and one-half seconds. Once in the Philippine Islands, I trained for a competition in which the targets appeared suddenly and stayed in sight only three seconds, the shooters being in the standing position before the targets appeared, and the range being unknown, but between 200 and 500 yards. We found that it was easy to flop down into the prone position and get a perfectly held shot off within the three seconds, and that we got a hit practically every time. The targets were silhouettes of men in the prone position, about the same area as the shoulders and chest of a deer.

In a rifle match which included the prone, sitting and kneeling positions, one would be hopelessly handicapped if he did not use a proper shooting gun sling. It will also be found a great aid in hunting, particularly for long range mountain shooting, or when one is out of breath or shaky from fatigue, or excited, or when a strong wind is blowing.

Note: We are indebted to *Outdoor Life* and the National Rifle Association for permission to republish this article.

SIZES OF SHOT FOR USE IN SHOTGUNS OF 20 TO 12 GAUGE ON VARIOUS SPECIES OF GAME

Geese, Turkeys	2, 3, BB
Ducks	4, 5, 6
Teal in 20 gauge	7
Pheasants, Grouse, Prairie Chickens, Squirrels	6
Same in open bores	7
Rabbits	6
Eastern Quail, Doves	8, 7½
Western Quail, Hungarian Patridge	7, 7½
Snipe, Woodcock	8, 9
Plover	8
Rail	9
Skeet	9
Trap	7½

TABLE OF SHOT PELLETS IN LOAD

Size of Shot	*Pellets in Ounce*	*Pellets in Load*	*Patterns at 40 yards. Choke*		
			Full 70%	*Modified 60%*	*Imp. Cyl. 50%*
BB	50	1⅝ Oz. 81	57	49	36
BB	50	1⅜ " 69	48	41	34
BB	50	1¼ " 62	43	37	31
No. 2	88	1⅝ " 143	99	86	71
No. 2	88	1⅜ " 121	85	73	60
No. 2	88	1¼ " 110	77	66	55
No. 2	88	1⅛ " 99	69	59	49
No. 3	109	1⅝ " 176	123	106	88
No. 3	109	1⅜ " 149	105	90	75
No. 3	109	1¼ " 136	95	81	68
No. 3	109	1⅛ " 123	86	74	60
No. 4	136	1⅝ " 221	155	133	110
No. 4	136	1⅜ " 187	131	112	94
No. 4	136	1¼ " 170	119	102	85
No. 4	136	1⅛ " 153	107	92	76
No. 4	136	1 " 136	95	82	61
No. 5	172	1⅝ " 280	196	168	140
No. 5	172	1⅜ " 237	166	142	118
No. 5	172	1¼ " 215	150	129	108
No. 5	172	1⅛ " 194	136	116	97
No. 5	172	1 " 172	120	103	86
No. 6	224	1⅝ " 364	255	218	182
No. 6	224	1⅜ " 308	216	185	154
No. 6	224	1¼ " 280	196	168	140
No. 6	224	1⅛ " 251	176	151	126
No. 6	224	1 " 224	157	134	112
No. 7	299	1¼ " 374	262	244	187
No. 7	299	1⅛ " 366	235	202	168
No. 7	299	1 " 299	209	179	150
No. 7	299	¾ " 224	157	134	112
No. 7½	345	1¼ " 431	302	259	216
No. 7½	345	1⅛ " 391	274	235	196
No. 7½	345	1 " 345	241	207	172
No. 7½	345	¾ " 259	161	155	129
No. 8	409	1¼ " 511	358	306	267
No. 8	409	1⅛ " 460	322	276	230
No. 8	409	1 " 409	286	245	205
No. 8	409	¾ " 307	215	184	154
No. 9	585	1⅛ " 658	460	395	329
No. 9	585	1 " 585	410	351	292
No. 9	585	¾ " 439	307	263	220

CASH AND TIME PLAN ORDER BLANKS
ON FOLLOWING PAGES

CASH ORDER BLANK

National Target and Supply Co.,
1255–25th Street, N. W.,
Washington, D. C.

Date: 193

Quantity	Full Description of Articles Wanted	Price	

Ship
- ☐ Express collect
- ☐ Freight collect
- ☐ Parcel Post

(If shipment by parcel post is desired, please include necessary postage with your remittance.)

Total Amount Enclosed_____ $

Name_____

Route_____ Box_____ Street_____

City_____ State_____
Please Print Clearly

CASH ORDER BLANK

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Total Amount Enclosed_____ $

Name_____

Route_____ Box_____ Street_____

City_____ State_____
Please Print Clearly

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THE NATIONAL TARGET & SUPPLY CO.

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Date_____ 193__

Description of Articles Wanted	Retail Price	
NOTE: Customer has the privilege of increasing the down payment and the monthly payments to suit his convenience. Our Time Payment Plan is limited to sales of $20.00 or over. — TOTAL RETAIL PRICE		
TIME PAYMENT CHARGE (See Schedule on back)		
TOTAL TIME PAYMENT PRICE		

Please send me the articles above listed and apply the $_____ enclosed as the first payment. I will pay you $_____ within thirty days from the date the articles are shipped to me, and a like amount monthly thereafter until the total time payment plan price is paid. Until the goods are fully paid for, title and right of possession shall remain in you.

I will not sell, remove, or encumber any of the articles covered by this order without your written consent, and I will be responsible for any loss or damage to them. Should I fail to make any payment when due, you may retake custody of goods at any time after such default, or you may hold the undersigned jointly and severally for the full unpaid balance, which shall then become due and payable. I submit the following statement of facts to induce you to extend credit on this basis:

I have lived here since_____ (Own my Home / Rent or Board) _____ (Married / or Single) _____ My age is_____

My occupation is_____ My average monthly income for the past year $_____

Name and Address of Employer_____ Length of time I have worked for him_____

Name and Address of Bank I do business with_____

The following are the names of three references with whom I have had credit dealings - (Business houses preferred.)

Name_____ Address_____

Name_____ Address_____

Name_____ Address_____

Name and address of Rifle or Pistol Club or other organization to which I belong_____

Name and address of Club Secretary_____

MY SIGNATURE_____

Street and Number_____ City_____ State_____

Shipping point (If different from your Post Office)_____

(TIME PAYMENT SCHEDULE ON BACK)

TIME PAYMENT SCHEDULE

If Cash Price of Order is	Add for Time Payments	First Payment with Order	Monthly Payments
$ 20.00 to $ 25.00	$ 2.00	$ 4.00	$ 4.00
25.01 to 30.00	2.50	4.00	4.00
30.01 to 35.00	3.00	4.00	4.00
35.01 to 40.00	3.50	5.00	4.00
40.01 to 45.00	4.00	5.00	5.00
45.01 to 50.00	4.50	6.00	6.00
50.01 to 55.00	5.00	6.00	6.00
55.01 to 60.00	5.00	7.00	7.00
60.01 to 70.00	6.00	8.00	8.00
70.01 to 80.00	7.00	9.00	9.00
80.01 to 90.00	8.00	10.00	10.00
90.01 to 100.00	9.00	11.00	11.00
100.01 to 110.00	10.00	12.00	12.00
110.01 to 120.00	11.00	14.00	14.00
120.01 to 130.00	12.00	15.00	15.00
130.01 to 140.00	13.00	16.00	16.00
140.01 to 150.00	14.00	17.00	17.00
150.01 to 175.00	15.00	19.00	19.00
175.01 to 200.00	17.50	22.00	22.00